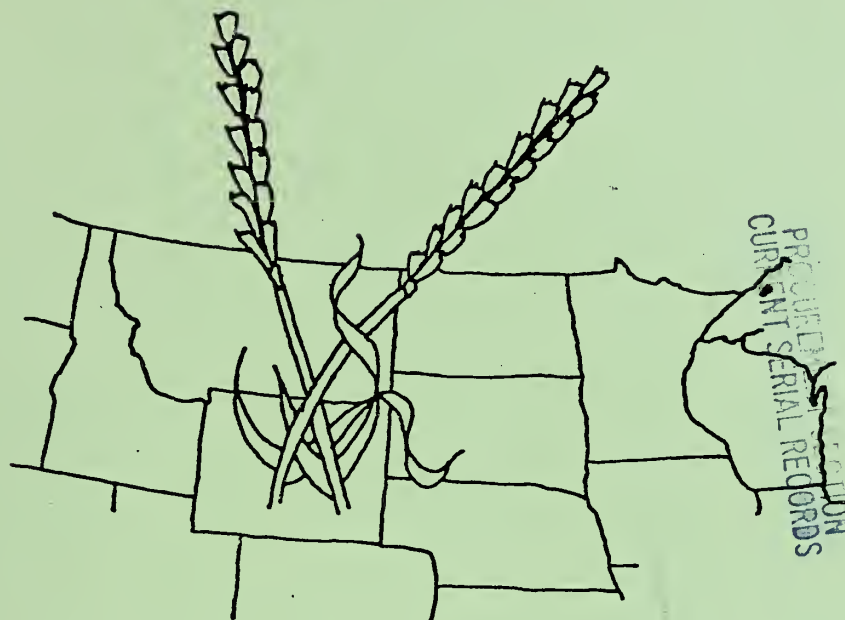


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HARD RED SPRING WHEAT



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QUALITY REPORT

Physical, Chemical, Milling, and Baking Characteristics

1974-1976 CROPS

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
NORTH CENTRAL REGION



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
in cooperation with
STATE AGRICULTURAL EXPERIMENT STATIONS

REPORT OF PHYSICAL, CHEMICAL, MILLING, AND BAKING EXPERIMENTS

WITH HARD RED SPRING WHEAT

1974-1976 CROP^{1/}

by

W. C. Shuey, Research Food Technologist; J. W. Dick, Food Technologist; C. A. Watson, Research Chemist; R. D. Crawford, R. D. Maneval, and N. B. Lofthus, Technicians, Agricultural Research Service.

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^{1/} This is a progress report of cooperative investigations containing some results that have not been sufficiently confirmed to justify general release; interpretations may be modified with additional experimentation. Confirmed results will be published through established channels. The report is primarily a tool for use of cooperators and their official staffs and to those persons having direct and special interest in the development of agricultural research programs.

This report is compiled by the Agricultural Research Service, U.S. Department of Agriculture. Special acknowledgment is made to the North Dakota State University for their facilities and services provided in support of these studies. The report is not intended for publication and should not be referred to in literature citations nor quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

Hard Red Spring and Durum Wheat Quality Laboratory
Fargo, North Dakota



1974 COOPERATING AGENCIES, STATIONS, AND PERSONNEL

The cooperating agencies and stations conducting the varietal plot and nursery experiments from which the 1974 spring wheat samples were received are listed below:

California Agricultural Experiment Station:

El Centro

Idaho Agricultural Experiment Station:

Aberdeen and Tetonia

Minnesota Agricultural Experiment Station:

Crookston, Morris, and St. Paul

Montana Agricultural Experiment Station:

Bozeman, Havre, and Sidney

North Dakota Agricultural Experiment Station:

Dickinson, Langdon, Minot, and Williston

South Dakota Agricultural Experiment Station:

Bison, Brookings, Highmore, Newell,
and Selby

Wisconsin Agricultural Experiment Station:

Madison

Wyoming Agricultural Experiment Station:

Sheridan and Torrington

A complete list of all cooperating agencies, stations, and personnel for the year will be found in the report by R. E. Heiner, et al., Wheat Varieties Grown in Cooperative Plot and Nursery Experiments in the Spring Wheat Region in 1974.

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El Centro

Idaho Agricultural Experiment Station:

Aberdeen

Minnesota Agricultural Experiment Station:

Crookston, Morris, Stephen, and St. Paul

Montana Agricultural Experiment Station:

Bozeman, Havre, and Sidney

North Dakota Agricultural Experiment Station:

Carrington, Dickinson, Fargo, Langdon,
Minot, and Williston

Oregon Agricultural Experiment Station:

Pendleton

South Dakota Agricultural Experiment Station:

Brookings, Highmore, and Selby

Wisconsin Agricultural Experiment Station:

Madison

A complete list of all cooperating agencies, stations, and personnel for the year will be found in the report by R. E. Heiner, et al., Wheat Varieties Grown in Cooperative Plot and Nursery Experiments in the Spring Wheat Region in 1975.

1976 COOPERATING AGENCIES, STATIONS, AND PERSONNEL

The cooperative agencies and stations conducting the varietal plot and nursery experiments from which the 1976 spring wheat samples were received are listed below:

California Agricultural Experiment Station:

El Centro

Idaho Agricultural Experiment Station:

Aberdeen and Tetonia

Minnesota Agricultural Experiment Station:

Morris, Stephen, and St. Paul

Montana Agricultural Experiment Station:

Harve and Sidney

North Dakota Agricultural Experiment Station:

Carrington, Dickinson, Fargo, Langdon,
Minot, and Williston

South Dakota Agricultural Experiment Station:

Brookings and Selby

Wisconsin Agricultural Experiment Station:

Madison

Wyoming Agricultural Experiment Station:

Sheridan

A complete list of all cooperating agencies, stations, and personnel for the year will be found in the report by R. E. Heiner, et al., Wheat Varieties Grown in Cooperative Plot and Nursery Experiments in the Spring Wheat Region in 1976.

INTRODUCTION

Samples of standard varieties and many of the new strains of hard red spring wheat grown in cooperative experiments in the spring wheat region of the United States^{2/} have been milled each year by the USDA. The flours were assayed chemically and physically and baked into bread to determine the quality characteristics. The purpose of this report is to make available to the cooperators, quality data on the standard varieties and new strains of hard red spring wheat from the 1974-1976 crops.

The same general format and techniques were used in evaluating the wheats as outlined in quality reports for previous years. Because the report contains data from three crop years, only the 1976 crop year data will be discussed, as in previous reports. The 1974 and 1975 crop year data, however, will be included in the discussion where applicable. The data contained in this report are comparable to data in past reports and, where applicable, average results and also the average results of other crop years are compared. A five year average (5-YA) and the averages for the individual five years used in the average are tabulated for the uniform regional nursery varieties of Chris, Justin, and Selkirk. These results give an overview of individual years and the influence of environment on the crop. The actual crop characteristics may be somewhat different due to differences in varieties, but the change from year to year is applicable.

The format adopted in 1962 for the evaluation of a sample utilized three categories: kernel characteristics, milling performance, and baking evaluation. The basic difference between this report and previous reports is the manner in which the ratings were obtained. Previous to the 1970 crop report, an individual judgment was used to ascertain the rating for each sample. A brief description of the new technique is given on pages 16 and 17 of this report. It is hoped that with this technique, a more objective evaluation has been obtained. Also, it is now possible to quickly deduce the various characteristics of the selection and any outstanding features or deficiencies which are apparent. No specific comments are made regarding the mixogram patterns, since reference mixograms for each of the general types are presented at the end of the report.

The 1974 crop was grown under very adverse conditions. Heavy rains and flooding caused delayed seeding, and hot, dry weather in July caused considerable stress on the crop; although, cooler weather in August did help the late seeded crop. Some of the late crop was frost damaged. The

^{2/} Heiner, R. E., Elsayed, F. A., and Quick, J. S. Wheat Varieties Grown in Cooperative Plot and Nursery Experiments in the Spring Wheat Region in 1974-1976. Agricultural Research Service, U.S. Department of Agriculture and State Agricultural Experiment Stations, St. Paul, Minn.

average extraction was 0.5% higher than the 5 year average (5-YA) with the same flour mineral content at 65% extraction, while the test weight, 1000 kernel weight, and percent large kernels were lower. The protein content was approximately 1% higher than the 5-YA or the 1973 crop average.

The baking performance of the 1974 crop was essentially the same as the 5-YA, but it had shorter mixing time and slightly weaker dough than the 1973 crop. This would be unexpected with the higher protein content, except that some of the protein was not "gluten-type" protein.

The oxidation requirements for the 1974 crop were somewhat erratic, and the crop, on the average, required little or no bromate, which would be less than the 5-YA or the 1973 crop.

The 1975 crop was late in being planted because of wet soil and cool weather. Although growing conditions were ideal at the beginning of the season, the latter part of the season produced varied conditions of excessive moisture in the eastern areas to drought in some of the western areas. The average extraction was 3% higher than the 5-YA, but the flour mineral content was .04% higher at 65% extraction, which reflects the somewhat higher wheat mineral content and the poorer physical wheat characteristics. The protein content was 0.4% higher than the 5-YA but 0.2% lower than the 1974 crop average.

The baking performance of the 1975 crop was about the same as the 5-YA, but the baking absorption was approximately 3.5% higher than the 5-YA or the 1974 crop average. Even though the 1975 crop average protein was intermediate between the 1974 crop and the 5-YA, the loaf volume was significantly lower than both averages.

The oxidation requirements for the 1975 crop were somewhat erratic, but on the average required only a minimal amount of bromate and about the same as 1974.

The 1976 crop started out with an ample supply of subsoil moisture. However, as the season progressed, drought conditions began to develop in some areas, especially in the southern sections where the drought was cataclysmic. Some rains during the season did help the late planted crops. The average extraction was 0.5% lower than the 1975 crop average but 1.0% higher than the 5-YA. There was a marked drop in the wheat mineral content, which was similar to the crop years previous to 1974. The wheat protein content was intermediate to the 1975 average and the 5-YA. The physical characteristics of the wheat were similar to the 5-YA.

The baking performance of the 1976 crop was about the same as 1975 except for shorter mixing time and slightly weaker dough properties. The absorption remained high and was approximately 5.0% above the 5-YA. The loaf volume was higher than 1975 but still below what might be expected for the amount of wheat protein content.

The oxidation requirements for the 1976 crop varied with the area but on the average were less than 1975, which were minimal. Many samples required no bromate to produce satisfactory bread.



SOURCE OF THE 1974 CROP SAMPLES

Tests were performed on 784 samples received from field plots, uniform regional nurseries, and sawfly yield nurseries of the 1974 crop. These samples originated in eight states: California, Idaho, Minnesota, Montana, North Dakota, South Dakota, Wisconsin, and Wyoming. Twenty-one stations from these states were represented, namely, El Centro in California; Aberdeen and Tetonia in Idaho; Crookston, Morris, and St. Paul in Minnesota; Bozeman, Havre, and Sidney in Montana; Dickinson, Langdon, Minot, and Williston in North Dakota; Bison, Brookings, Highmore, Newell, and Selby in South Dakota; Madison in Wisconsin; and Sheridan and Torrington in Wyoming.

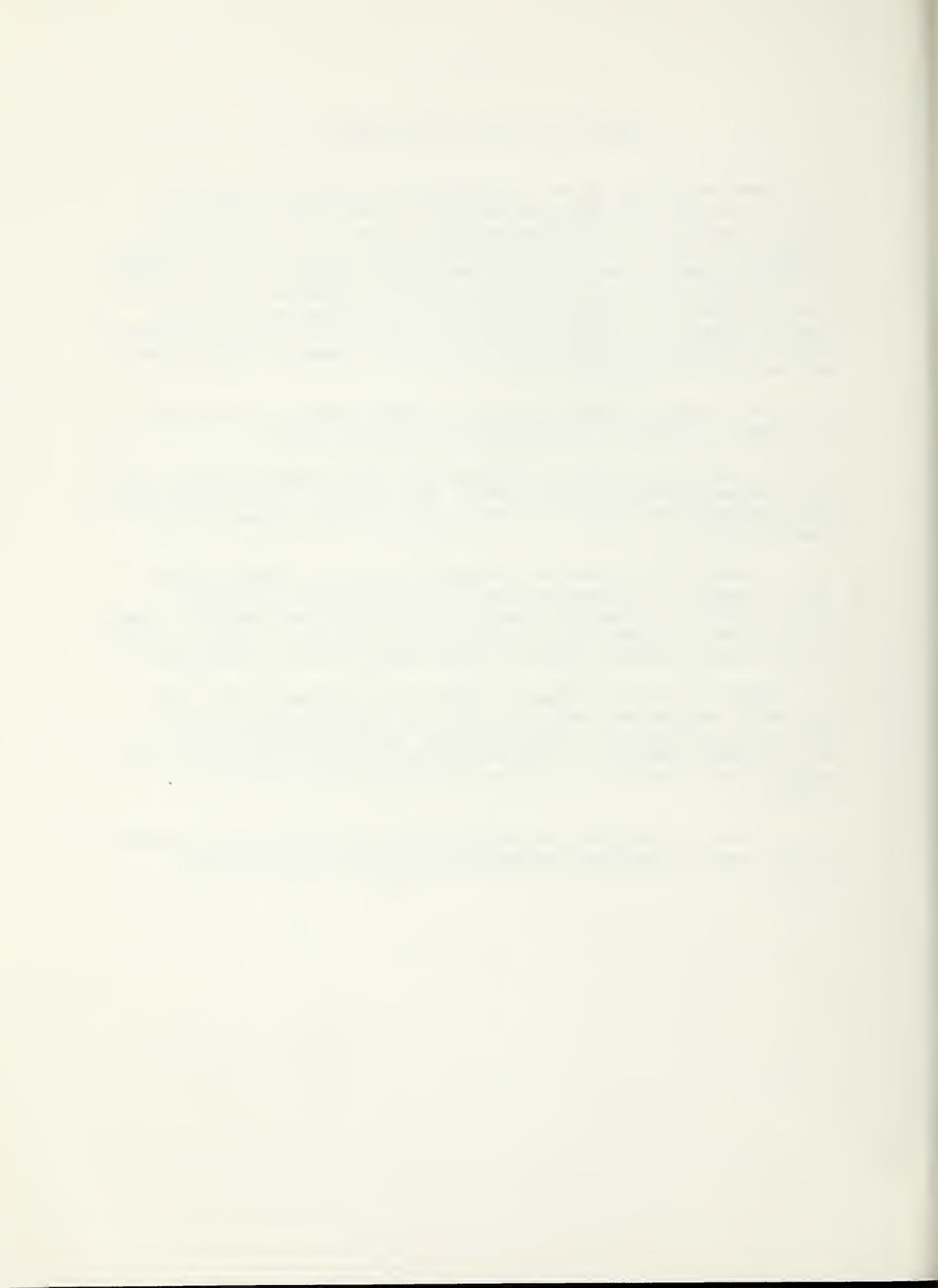
Due to apparent differences in the characteristics of the wheats and protein contents, no samples were blended this year.

On page 10 are listed the spring wheats that were included in the 1974 Uniform Regional Nursery trials. The variety or cross, the station that developed the variety, the state selection number, and the C.I. number are given.

In Table 12 are given the average data for the Uniform Regional Nursery samples. The data for kernel characteristics and milling performance are arithmetical averages of the individual samples. However, the mixograms and baking data were obtained from blends of equal proportions of the individual flours for each sample from the 19 stations.

Table 13 is the new summary table for the uniform regional data. The table contains the average data for the three areas (Southeast, Northeast, and Western), the 1974 average, the 5 year average data, and the individual five year average data from which the cumulative 5 year average data is derived for the check varieties Chris, Justin, and Selkirk.

In Table 20 are given the average data for the Sawfly Yield Nursery samples obtained from the arithmetical averages of the individual samples.



SOURCE OF THE 1975 CROP SAMPLES

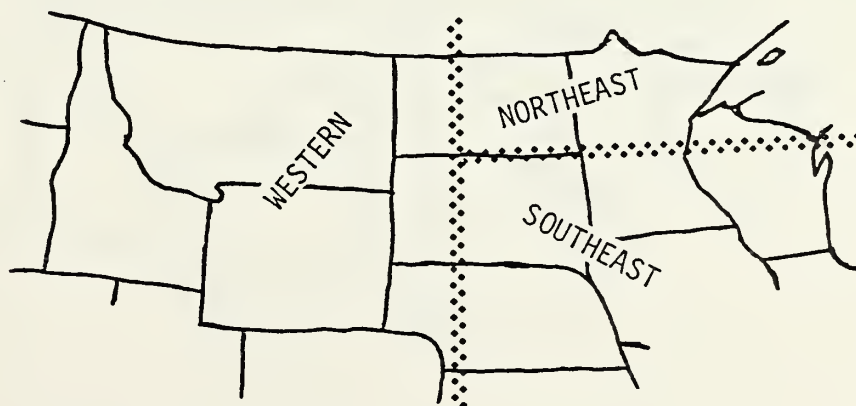
Tests were performed on 696 samples received from field plots, uniform regional nurseries, and sawfly yield nurseries of the 1975 crop. These samples originated in eight states: California, Idaho, Minnesota, Montana, North Dakota, Oregon, South Dakota, and Wisconsin. Twenty stations from these states were represented, namely El Centro in California; Aberdeen in Idaho; Crookston, Morris, Stephen, and St. Paul in Minnesota; Bozeman, Havre, and Sidney in Montana; Carrington, Dickinson, Fargo, Langdon, Minot, and Williston in North Dakota; Pendleton in Oregon; Brookings, Highmore, and Selby in South Dakota; and Madison in Wisconsin.

On page 11 are listed the spring wheats that were included in the 1975 Uniform Regional Nursery trials. The variety or cross, the station that developed the variety, the state selection number, and the C.I. number are given.

The spring wheat area was divided into 3 areas as outlined in the illustration. The wheat samples from those stations falling within the arbitrary boundaries shown were blended in equal portions and milled on the Buhler mill as area blends.

The average data for the Uniform Regional Nursery samples are given in Table 4 for the previous 5 crop years and the 1975 area blends and crop year. The data for kernel characteristics are arithmetical averages of the individual samples. However, milling performance, the mixograms, and baking data were obtained from the area blends of equal proportions of the individual wheat samples from the 16 stations.

In Table 10 are given the average data for the Sawfly Yield Nursery samples obtained from the arithmetical averages of the individual samples.





SOURCE OF THE 1976 CROP SAMPLES

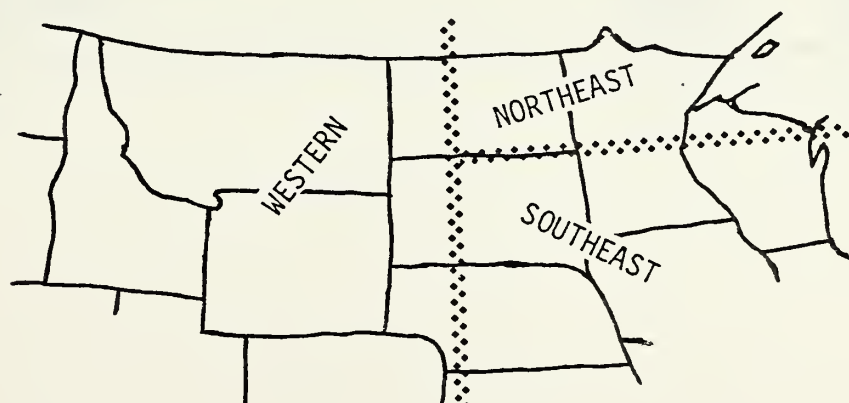
Tests were performed on 741 samples received from field plots, uniform regional nurseries, and sawfly yield nurseries of the 1976 crop. These samples originated in eight states: California, Idaho, Minnesota, Montana, North Dakota, South Dakota, Wisconsin, and Wyoming. Eighteen stations from these states were represented, namely, El Centro in California; Aberdeen and Tetonia in Idaho; Morris, Stephen, and St. Paul in Minnesota; Havre and Sidney in Montana; Carrington, Dickinson, Fargo, Langdon, Minot, and Williston in North Dakota; Brookings and Selby in South Dakota; Madison in Wisconsin; and Sheridan in Wyoming.

On page 12 are listed the spring wheats that were included in the 1976 Uniform Regional Nursery trials. The variety or cross, the station that developed the variety, the state selection number, and the C.I. number are given.

Individual wheat samples originating from the 3 spring wheat areas as outlined in the illustration were blended according to area. The samples were blended in equal portions and milled as area blends.

In Table 4 are given the average data of the Uniform Regional Nursery samples for the previous 5 crop years and the 1976 area blends and crop year. The data for kernel characteristics are arithmetical averages of the individual samples. However, milling performance, the mixograms and baking data were obtained from the area blends of equal proportions of the individual wheat samples from the 15 stations.

In Table 14 are given the average data for the Sawfly Yield Nursery samples obtained from the arithmetical averages of the individual samples.



THEORY

The first part of the theory is the definition of the n -th order approximation of the function $f(x)$ by the function $f_n(x)$. The function $f_n(x)$ is defined as the function which is the sum of the first n terms of the Taylor series of $f(x)$ about the point a . The function $f_n(x)$ is then used to approximate the function $f(x)$ at the point x . The error of the approximation is defined as the difference between the function $f(x)$ and the function $f_n(x)$. The error is then bounded by the remainder term of the Taylor series. The remainder term is defined as the sum of the terms of the Taylor series which are not included in the approximation. The remainder term is then bounded by the maximum value of the $(n+1)$ -th derivative of the function $f(x)$ at the point a multiplied by the $(n+1)$ -th power of the distance between the point x and the point a . This is the Lagrange form of the remainder term. The error of the approximation is then bounded by the maximum value of the $(n+1)$ -th derivative of the function $f(x)$ at the point a multiplied by the $(n+1)$ -th power of the distance between the point x and the point a . This is the Lagrange form of the error bound.

$$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \dots + \frac{f^{(n)}(a)}{n!}(x-a)^n + R_n(x)$$

ENTRIES FOR THE 1974 UNIFORM REGIONAL HARD RED SPRING WHEAT NURSERY

Entry No.	Cross or Variety	C.I. or Sel. No.	Year Entered	Source
1	MARQUIS	3641	1929	Canada
2	JUSTIN	13462	1959	ND
3	SELKIRK	13100	1953	Canada
4	CHRIS	13751	1960	USDA-MN
5	WALDRON	13958	1964	ND
6	ND455*2/AGATHA/3/3*ND455//T1673/3*KT48	ND510	1972	ND
7	ND480//POLK/WISC261	ND519	1973	ND
8	FRONTANA/62-85	MT711	1974	USDA-MT
9	WALDRON/ND269	ND496-153	1974	ND
10	do	ND496-158	1974	ND
11	ND496 sib/3/ND457//AGENT/T.DER.	ND526	1974	ND
12	ND496 sib/3/ND457//AGENT/T.DER.	ND427	1974	ND
13	Jt/3/NRN10/BVR14//4*CNT	MT7031**	1974	USDA-MT
14	SR/3/NRN10/BVR14//5*CNT	MT7156**	1974	USDA-MT
15	PJ60/3/HRY*7/P54//K184/7*WI250/4/K184/ 4*WI250	WI262T**	1974	WI
16	ERA	13986**	1968	USDA-MN
17	II-55-14/II-60-105	II-64-27**	1972	USDA-MN
18	do	II-64-33**	1972	USDA-MN
19	ND441 sib*2/AGENT//3*ND441 sib/T.DER./3/ 2*ND441/SUWON92	ND521**	1973	ND
20	ND491/FLETCHER	ND522**	1973	ND
21	Jt//CLY/ND122/3/AGENT/T.DER./4/ND76/CLY// Jt/3/SUWON92	ND523**	1974	ND
22	ELLAR/FLETCHER	ND528**	1974	ND
23	WI271/POLK	ND529**	1974	ND

** Semidwarf



ENTRIES FOR THE 1975 UNIFORM REGIONAL HARD RED SPRING WHEAT NURSERY

Entry No.	Cross or Variety	C.I. or Sel. No.	Year Entered	Source
1	MARQUIS	3651	1929	Canada
2	JUSTIN	13462	1959	ND
3	SELKIRK	13100	1953	Canada
4	CHRIS	13751	1960	USDA-MN
5	WALDRON	13958	1964	ND
6	ND480//POLK/WISC261	ND519	1973	ND
7	ND496sib/3/ND457//AGENT/T.Der.	ND527	1974	ND
8	ND496sib/4/ND396/3/Pb/AGENT//SUWON92	ND531	1975	ND
9	OLAF/ND496	ND532	1975	ND
10	do	ND533	1975	ND
11	LEW	MT711	1974	USDA-MT
12	PJ60/3/HRY*7/P54/K184/7*WI250/4/K184; 4*WI250	H678-1-64311**	1975	WI
13	do	WI262T**	1974	WI
14	NEWANA	MT7156**	1974	USDA-MT
15	ND491/FCH	ND522**	1973	ND
16	ELLAR/FCH	ND528**	1974	ND
17	WI261/ND450	ND534**	1975	ND
18	ND499/WALDRON/RI4205/3/CONLEY/ND122/ WI261	ND535**	1975	ND
19	POLKsib/II-60-105	MNII-64-27**	1972	USDA-MN
20	FCH/NOR66//MNII-64-33	MN7083**	1975	USDA-MN
21	ERA/MNII-64-33	MN7086**	1975	USDA-MN
22	POLK/TOB66/FCH	MN70113**	1975	USDA-MN
23	ERA/CHRIS MUTANT	MN70180**	1975	USDA-MN
24	PJ/GTO//TzPP/KNOTT/3/NOR66/4/ERA	MN6728**	1975	USDA-MN
25	WALDRON/ERA	MN70175**	1975	USDA-MN
26	POLK/TOB66//NOR66/ERA	MN70121**	1975	USDA-MN
27	ERA	13986**	1968	USDA-MN
28	BORAH	17267**	1975	USDA-ID

** Semidwarf



ENTRIES FOR THE 1976 UNIFORM REGIONAL HARD RED SPRING WHEAT NURSERY

Entry No.	Cross or Variety	C.I. or Sel. No.	Year Entered	Source
1	MARQUIS	3651	1929	Canada
2	JUSTIN	13462	1959	ND
3	SELKIRK	13100	1953	Canada
4	CHRIS	13751	1960	USDA-MN
5	WALDRON	13958	1964	ND
6	BUTTE	ND519	1973	ND
7	ND496sib/4/ND396/3/Pb/AGENT//SUWON92	ND531	1975	ND
8	OLAF/ND496	ND536	1976	ND
9	ND496sib//ND487/FLETCHER	ND538	1976	ND
10	ND497sib/4/ND457/3/AGENT/T.der.// SUWON92	ND541	1976	ND
11	ND487/4/WALDRON/3/AGENT/T1673..SUWON92	ND542	1976	ND
12	ND507/ND496	ND544	1976	ND
13	OLAF/ND510-2	SD2273	1976	SD
14	ELLAR/FLETCHER	ND522**	1976	ND
15	ND499/3/JUSTIN/RL4205//WI261	ND543**	1976	ND
16	POLKsib/II-60-105	MNII-64-27**	1972	USDA-MN
17	ERA/KITT	MN7086**	1975	USDA-MN
18	POLK/TOB//FCH	MN70113**	1975	USDA-MN
19	WALDRON/ERA	MN70175**	1975	USDA-MN
20	WALDRON/ERA	MN70170**	1976	USDA-MN
21	ERA/CHRIS MUTANT	MN70202**	1976	USDA-MN
22	FCH/C.I.13990	MN7125	1976	USDA-MN
23	CHRIS*3/II-60-46/3/II-62-68/TOB66// FCH/CNO67	MN7142**	1976	USDA-MN
24	II-62-68/TOB66//FCH/CNO67/3/Polk	MN7155**	1976	USDA-MN
25	FCH/CNO//C.I.13569/II-60-46/3/MN70170	MN7170**	1976	USDA-MN
26	OLAF/ND510-1	SD2271**	1976	SD
27	WORLD SEEDS 1809/Pj63//SELKIRK-1	SD2288**	1976	SD
28	RR68/4/SI/3/NRN10/BVR14/5*CNT	MT749**	1976	USDA-MT
29	RR68/3/NRN10/BVR14//6*CNT	MT7416**	1976	USDA-MT
30	PJ60/3/HRY*7/P54/K184/7*WI25014/ K184/4*WI250	H678-1-64311**	1975	WI
31	POLKsib/II-60-105	II-62-48**	1976	TX
32	ERA	13986**	1968	USDA-MN

** Semidwarf



METHODS

The terminology and methods used are briefly described below:

Test Weight Per Bushel - The weight per Winchester bushel of cleaned, dry, scoured wheat. To determine the dockage-free test weight on a comparable sample, approximately one pound per bushel should be subtracted from the value given.

1000 Kernel Weight - The 1000 kernel weight was determined by counting the number of kernels in a 10 g sample of cleaned, picked wheat with an ASCO seed counter^{4/}.

Kernel Size - The percentages of the size of the kernels (large, medium, and small) were determined on a wheat sizer as described by Shuey^{5/}.

The sieves of the sizer were clothed as follows:

Top Sieve	- Tyler # 7 with 2.92 mm opening
Middle Sieve	- Tyler # 9 with 2.24 mm opening
Bottom Sieve	- Tyler #12 with 1.65 mm opening

Potential Yield - The potential yield is not shown on the computer tables, but it can be determined by multiplying the percentages of the overs of each sieve #7, #9, and #12 by the value of 78%, 73%, and 68%, respectively. The accumulation percentage would be the potential yield.

Milling - The samples were cleaned by passing the wheat over an Emerson kicker and dockage tester and through a modified Forster scourer (Model 6). The clean, dry samples were pretempered to 12% moisture for at least 72 hours; then tempered to 16% moisture and allowed to stand overnight prior to milling.

All samples except the field plot samples were milled on a Brabender quadrumat junior mill. The mill was equipped with a #18 wire on the drum sieve. The throughs of the #18 wire were rebolted on a Strand sifter equipped with a #60 Tyler sieve. The sample was sifted for 1 minute. The throughs of the #60 wire were classified as flour and this was the material tested. The overs of the #18 wire were classified as bran and the throughs of the #18 wire and overs of the #60 Tyler sieve as crude shorts.

^{4/} Mention of a trademark name or a proprietary product does not constitute a guarantee or warranty of the product by the U.S. Department of Agriculture, and does not imply its approval to the exclusion of other products that may also be suitable.

^{5/} Shuey, William C. A Wheat Sizing Technique for Predicting Flour Milling Yield. Cereal Science Today 5: 71-72,75 (1960).



The field plot nursery samples were milled on a Buhler continuous experimental mill. This mill has been slightly modified to give results more comparable to commercial milling. The break scalping sieves were clothed with #54 stainless steel wire, the reduction scalping sieves with #58, #66, and #105 stainless steel wire for the first, second, and third reduction, respectively. All of the flour sieves were clothed with #135 stainless steel wire.

All six flour streams were combined to give the patent flour. The extraction of a good milling wheat using this flow is approximately 68%. This is comparable to a commercial "long patent" extraction flour. At this flour extraction of the wheat, the changes in flour ash are most sensitive to changes in percent extraction.

Protein Content - The protein was calculated by multiplying the factor of 5.7 times the percent nitrogen as determined by the standard Kjeldahl procedure.

Mineral Content or Ash Content - This was determined by measuring the residue of the minerals left after incinerating the sample for approximately 16 hours at 565°C. The results were reported as percentage of the sample that was incinerated.

Mixogram - The mixogram was determined by using 30 g of flour and adding 20 cc of water. The sensitivity spring setting was set at 10. All mixograms were run with constant weight of flour and volume of water. Absorptions reported were adjusted according to the height of the mixogram. The correction factor was determined from a series of flours by varying the amount of absorption.

Mixogram Pattern - The reference mixogram patterns given at the end of the report demonstrate the different types of mixograms that were obtained. A single number is assigned each pattern to characterize and simplify the classification of the curves--the larger number indicating stronger curve characteristics.

Baking Procedure or Formula - The baking formula used was as follows:

100% flour	3% milk D.S.M.
2% salt	3% yeast
5% sugar	2% shortening (Crisco, melted)

The sample was mixed to development in a National Manufacturing mixer--for the 25 g sample the micro mixer, and for the 100 g sample the 100 g special mixer size. Also, for the 25 g samples 10 ppm of bromate was used for oxidation, and for the 100 g samples 5 ppm of bromate was used, and 0.1% barley malt flour for enzymatic supplement for both size samples. The dough samples were moulded in a Roll-Er-Up moulder.

Absorption - This was the water, expressed as percent of the flour, required to bring the dough to proper consistency.



Crumb Color - This value was determined by comparing the loaf of the tested sample against a baking standard. This standard was selected as an average for the crop year for the spring wheat area.

Loaf Volume - This was volume of the baked loaf as determined by seed displacement.

All values (protein, ash, and absorption) were reported on a 14% moisture basis.



DISCUSSION

The following discussion presents some of the basic techniques and criteria used in the milling and baking quality evaluation of the samples. There are four major evaluation categories used: kernel characteristics, to characterize the kernel; milling performance, to evaluate the general milling characteristics; mixogram patterns, to classify the flour as to type; and baking evaluation, to rate the flour as to overall baking.

Each evaluation category can be important. A sample could be of a sufficiently poor quality for a given category to eliminate it from possible future testing. However, a sample submitted for the first time and found to be questionable should be tested again to establish if it has a satisfactory or unsatisfactory classification. A sample which is consistently rated as questionable should be discarded.

A computer program for evaluating milling and baking quality was developed from 749 previously evaluated uniform regional nursery samples. The samples represented 5 crop years, 7 states, 21 stations, and 33 series. Chris, Justin, and Selkirk were selected as the standard varieties for each series. The percent deviation of each independent variable varied from the mean of the standard varieties was determined. Limits consistent with previous data obtained on the 749 samples were established for each independent variable. Nebraska regressions were run to establish the regression coefficients of each variable.

Six characteristics (test weight, 1000 kernel weight, percent large kernels, percent small kernels, wheat mineral, and wheat protein) were independent variables used to calculate the dependent variable - Kernel Characteristics. Four characteristics (percent extraction, mineral @65% extraction, milling characteristic, and protein difference between flour and wheat protein) were used to calculate the dependent variable - Milling Performance. Bake absorption, mixing time, dough characteristics, crumb color, crumb grain, and loaf volume were the six independent variables used to determine the dependent variable - Baking Evaluation. These three dependent variables after calculation become independent variables used to calculate the dependent variable - General Evaluation.

The three dependent variables, Kernel Characteristics, Milling Performance, and Baking Evaluation are rated on a scale of 1 to 8, with 1 being Very Satisfactory and 8 being Unsatisfactory. The General Evaluation is rated on a scale of 1 to 4, with 1 being no promise; 2, little promise; 3, some promise; and 4, good promise. If one of the independent variables conver value is 8 (with the exception of crumb color), this automatically will rate the General Evaluation as 1, or no promise. If there are no 8's, the three values are employed in a regression equation to derive the General Evaluation. The weighted value for each of these variables on the General Evaluation is approximately 6% for Kernel



Characteristics, 47% for Milling Performance, and 47% for Baking Evaluation.

To quickly point out problem areas for a selection, two additional columns have been added to the printout. One column is minor deficiencies in which the independent variables converted to a 5 or 6, that is Questionable or Questionable to Unsatisfactory, will appear. The second column is major deficiencies in which the independent variables were converted either to a 7 or 8, that is Unsatisfactory to Questionable and Unsatisfactory. Deficiencies of the various selections may be readily determined by scanning these columns. It is also possible to have one or two independent variables that would appear in the major deficiency column, rating 7. These characteristics should be given serious consideration even though they do not influence the general rating sufficiently to rank the selection as having no promise.

All samples, as in previous years, are compared to a milling and baking standard that represents a blend of the crop year blended to a known quality. However, the samples for the individual stations are evaluated against the average results of the check varieties from the respective stations. The agronomic and climatic conditions of the individual locations can effect the quality of the wheat sample, such that the evaluation at certain locations could have all samples--even the named varieties--classified as Questionable to Unsatisfactory. Therefore, the evaluation ratings of one station are not directly comparable to those of another station. For example, an area may produce low protein wheats which give large and plump kernels, good milling and kernel characteristics, but low protein and unsatisfactory baking properties such as short mixing time, low loaf volume, and weak dough characteristics. The wheat from this area could not be considered as a strong spring wheat and would not maintain the quality expected from the spring wheat producing area. A good variety should have tolerance to a wide range of environmental conditions and the overall picture should be taken into consideration for establishing these varieties.

Kernel Characteristics are important in determining the initial value of the wheat and, if extremely poor, could disqualify a new variety from further consideration. Because of the present grading system, it is desirable to have a good test weight. If a sample has a low 1000 kernel weight and small kernel size distribution, it would be considered a poor sample for milling because of the high ratio of bran to endosperm. Therefore, it is desirable to have plump kernels. Wheat ash is an important factor when comparing a variety against other standard varieties. If a sample consistently has higher wheat mineral content, it increases the probability of having high flour ash. Lower protein than the standard varieties is not desirable because in a low protein crop year the probability of it having such a low protein as to be undesirable is much greater. Therefore, the protein must also be considered as a characteristic when comparing varieties grown in the same locality.



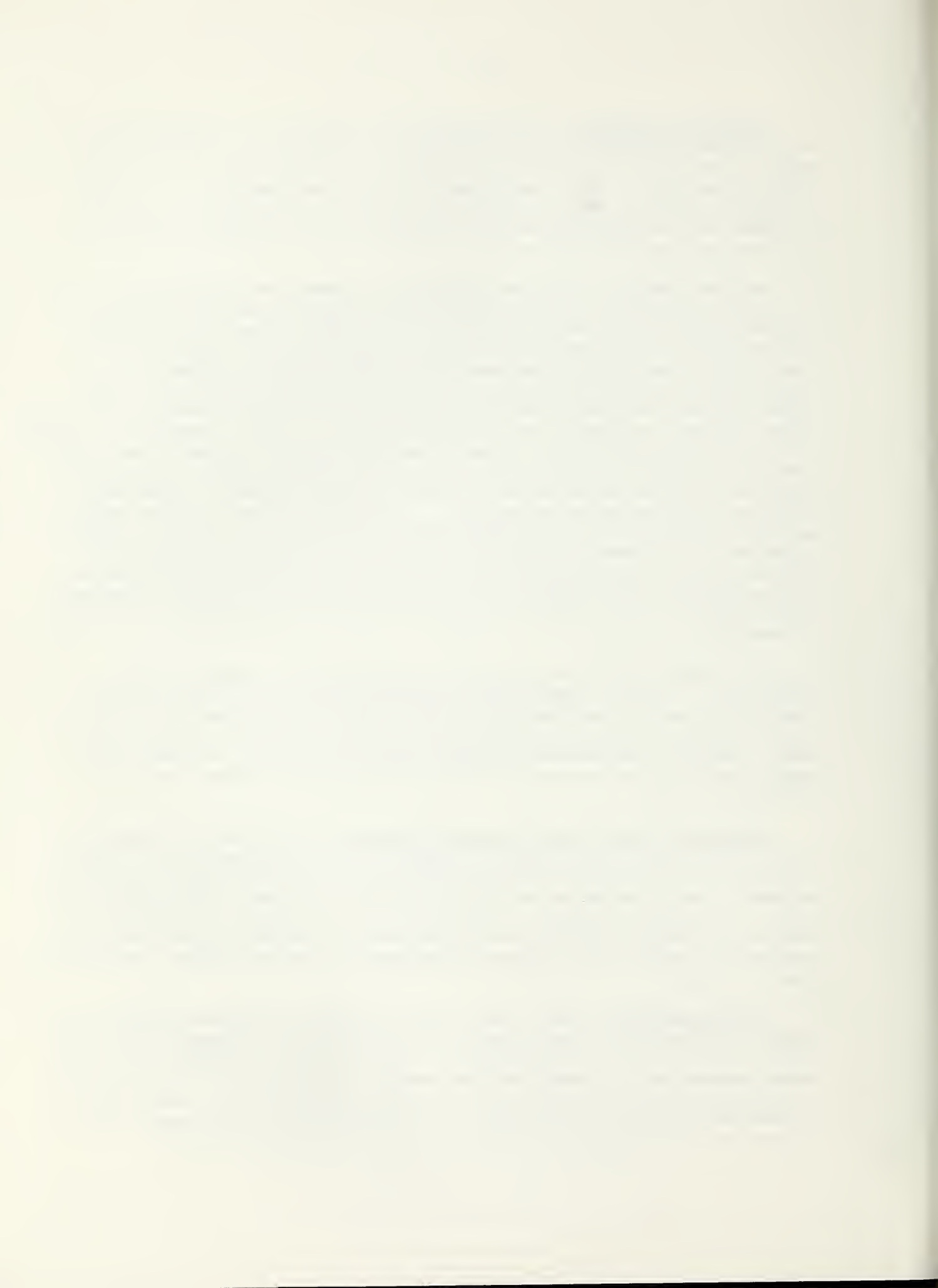
Milling Performance is very important, especially the subcategory of milling characteristics. If low extraction or high flour ash is obtained, these become major factors which are quite unacceptable from a commercial milling standpoint. All flour mineral contents are reported at a constant extraction of 65% so that the figures are directly comparable. As a rule of thumb, one can approximate that each point of ash (0.01%) is equivalent to approximately 2% in extraction.

Milling characteristics are important. A sample which tends to be soft in character requires a different milling technique to be milled properly. On commercial mills flowed for hard vitreous spring wheats, soft milling characteristics cause great difficulty. Therefore, if a sample shows softness in character, it is considered to be unsatisfactory. Likewise, a sample which is extremely hard and vitreous will cause difficulty. Both types of wheat (soft and vitreous) require different roll pressures, clothing, sifter surface, and temper to be milled properly. If these wheats are blended with normal milling wheats, improper results are obtained since these characteristics are not necessarily compatible or additive. Normal to soft score indicates that the sample shows a tendency toward softness of character on the flour mill stocks and extraction. This would indicate that the sample may give some difficulty for certain mill streams, and an adjustment would either have to be made in the milling flow or in tempering procedures to compensate for these differences. The properties of this wheat may or may not be compatible with other wheats with which it may be blended; therefore, it is important to maintain varieties with milling characteristics as uniform as possible.

The amount of protein recovered in the flour for a sample is of importance. The high protein wheats yielding low protein flours are not desirable. Such a wheat would have much of the protein distributed in the outer portion of the kernel which would result in excessive protein in the feed. Therefore, higher wheat protein would be necessary to yield a flour with protein content comparable to that of a wheat that gives good flour protein recovery.

Mixogram Patterns and Farinogram Patterns are important in estimating the strength and mixing tolerance or potential mixing tolerance of a flour. A long, flat curve is more desirable than a short, peaked curve; however, an extremely long curve may be undesirable if the flour would require excessive mixing for proper development. The pattern of the curve is of importance as well as the length, and both must be considered. Abnormal curves, such as sway-back or long initial time to incorporate the water, indicate undesirable characteristics.

Baking Evaluation takes into account the flour absorption, mixing time, dough characteristics, loaf volume, and machinability. A sample which has low absorption would be unsatisfactory compared to other spring wheats with normal absorption. A sample with extremely short mixing time would also be considered undesirable as a good strong spring wheat. When a sample is in the minimal range for these values, it is considered as questionable until further testing demonstrates whether a definite deficiency exists.



Doughs having mellow to weak dough properties show a tendency towards weakness. Also, for mellow to strong, the dough is mellow but has a tendency to be strong, and a strong to mellow dough is just the reverse. Since these characteristics are subjective rather than objective, it is necessary at times to estimate the tendency; therefore, the necessity exists for apparent double grades.

The grain or appearance of the interior of the loaf shows how well the sample stood up during baking and may point out or explain some deficiencies which have been observed during the baking test.

Loaf volume indicates potential strength of the flour in a different manner than mixing time or dough characteristics in that it shows the ability or lack thereof for the dough to expand under pressure and to contain the entrapped gases during this expansion. Weak flours act much like rotten balloons, which burst when blown up and collapse and yield low loaf volume or extremely large volume and large holes in the interior of the loaf. Low protein flours and lifeless (dead) doughs exhibit properties similar to putty and do not expand during fermentation or baking and give low loaf volume. Tough and very bucky doughs are bound too tightly and impede expansion of the gases causing low loaf volume.

General Evaluation rating applies only to the data contained in the year of the report. A new category, the Prospect of a selection, will apply to two or more years of data. The Prospect is given for each selection that has been tested for at least two crop years. This evaluation takes into account the various grading factors and the results of the crop years in an effort to determine if the selection should be considered as a prospective new variety. The main defects and outstanding features are discussed. A selection which is promising should be continued. Those which show some promise with outstanding agronomic characteristics should be seriously considered and looked at in large plots (if it has not been done previously), providing sufficient other information has been obtained. A sample which shows little or no promise should be discontinued.



UNIFORM REGIONAL NURSERY SAMPLES - 1976 CROP

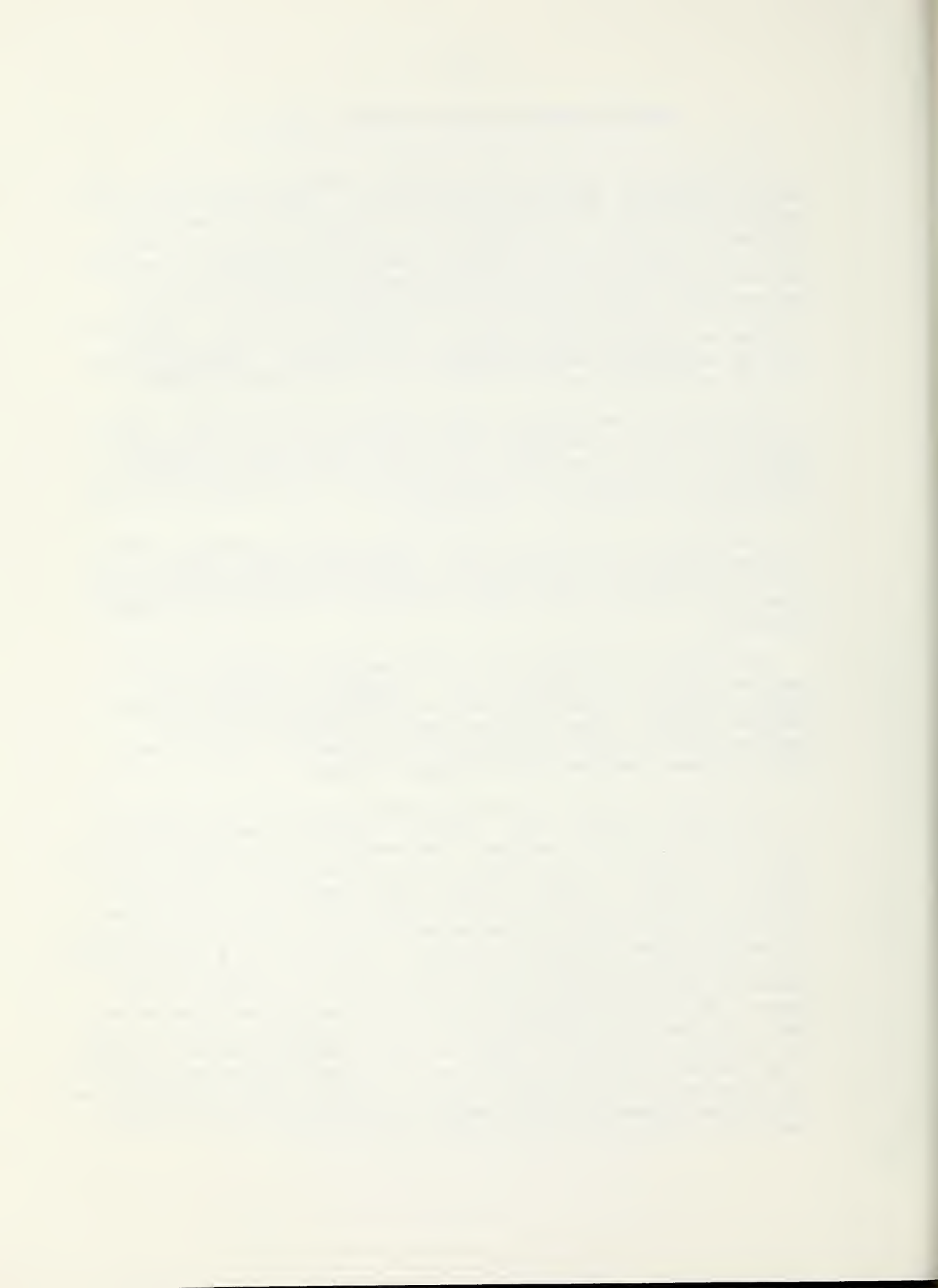
A total of 481 Uniform Regional Nursery samples were received. The samples represented 15 stations from 7 states. Wheat blends were made of the samples for this crop year by area. The areas tend to represent movement of the wheat in the market. The individual kernel characteristics were determined on the individual samples to eliminate any possible erroneous results, but the area blends were milled and baked by our macro method. Thirty-two samples were received from each of the 15 stations. Twenty-five selections were included for quality evaluation in the Uniform Regional Nursery samples. The remainder of the samples were the commercially named varieties of: Chris, Era, Justin, Marquis, Selkirk, and Waldron, and the newly released variety Butte (ND519).

The data for the southeast area blend are given in Table 1. The 4 stations included in this area were: Morris and St. Paul, Minnesota; Selby, South Dakota; and Madison, Wisconsin. Other stations normally included in the blend but from which no samples were received this year are Brookings and Highmore, South Dakota.

The data for the northeast area blend are given in Table 2. The 4 stations included in this blend were: Carrington, Fargo, Langdon, and Minot, North Dakota. Other stations normally included in the blend but from which no sample were received this year are Crookston and Stephen, Minnesota.

The data for the western area blend are given in Table 3. The 7 stations included in this blend were: Aberdeen and Tetonia, Idaho; Havre and Sidney, Montana; Dickinson and Williston, North Dakota; and Sheridan, Wyoming. Other stations normally included in the blend but from which no samples were received this year are: Newell, South Dakota; Bozeman, Montana; and Torrington, Wyoming.

In Table 4 are given the average area results for the combined data of the 3 check varieties, Chris, Justin, and Selkirk samples submitted from the 7 states and 15 stations. The results for kernel characteristics and milling performance were obtained by averaging the results from the 3 tables--1 through 3. Table 6 includes extra samples not received from the other stations. The milling and baking results were obtained from the area blend of the wheats in equal proportions from each of the stations for the respective variety or selection. The regular 100 g straight dough rich formula baking procedure was used in baking. The General Evaluation column includes the general overall performance of the blend of each sample. The General Evaluation given for the sample area blend may not agree with that of the individual wheat samples within the blend, since averages do not express the range, and poor characteristics may be masked. In an endeavor to clarify this problem, the average general evaluation, the number of total deficiencies, and the number of major deficiencies are shown in parentheses after each variety or selection--(Average General Evaluation - #Total Deficiencies/#Major Deficiencies).



For simplicity and brevity of the report, as in previous reports, each variety will be discussed from the general overall viewpoint rather than the individual areas. The general evaluation summarizes the results from the individual areas for one crop year. The evaluation is more meaningful for the overall performance of a variety or selection when at least two or more crop years are included. The data discussed under the category, the Prospect, includes two or more years.

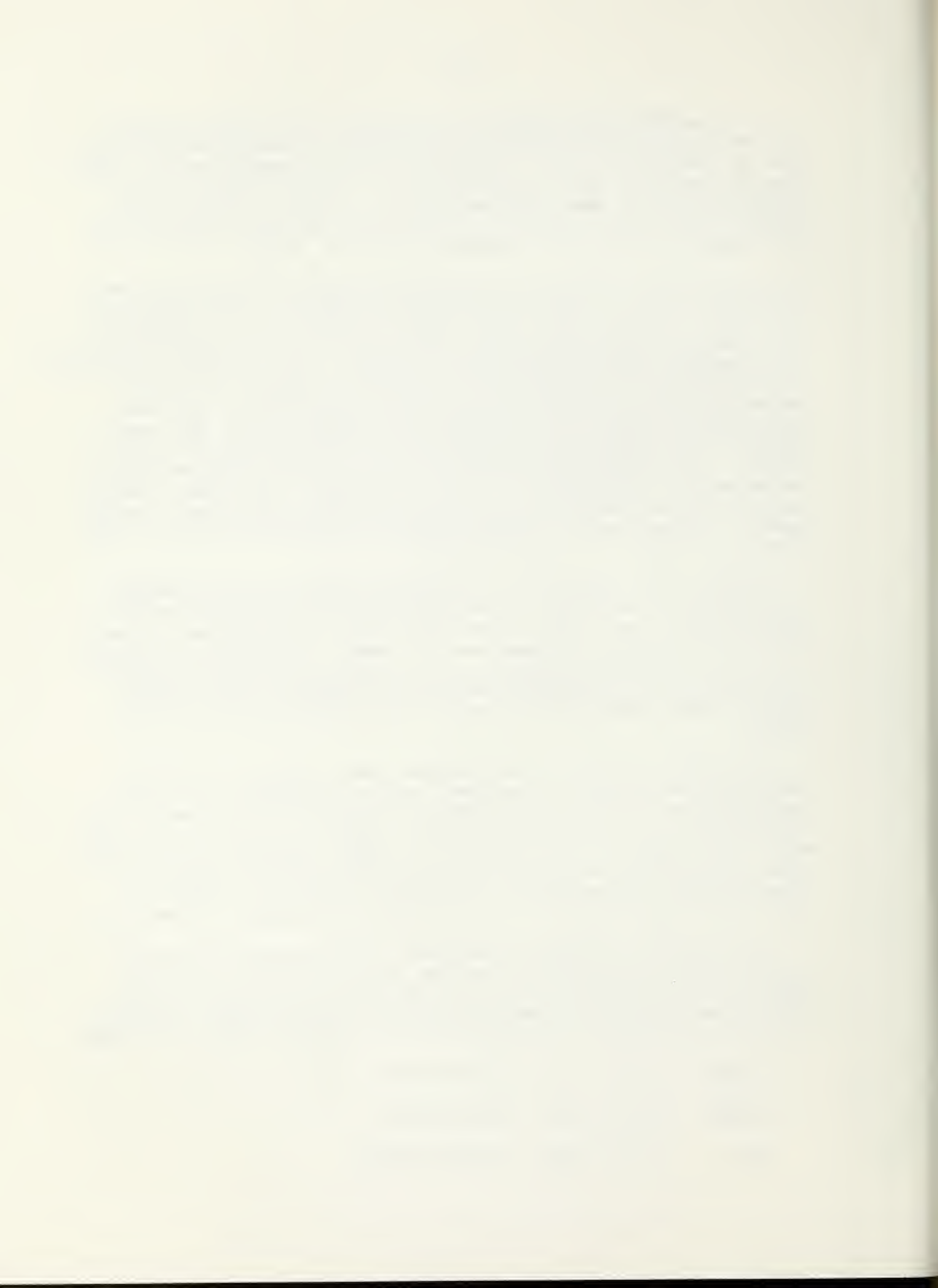
Also given in Table 4 are the averages given by areas for the three varieties of Chris, Justin, and Selkirk, a comparison of the previous 5 crop years, as well as the 5 year average (5-YA) of the three varieties for comparative purposes, and the 1976 grand averages for the three varieties for comparison of the crop years and the 5-YA. In general, the 1976 crop had slightly better kernel characteristics (test weight, 1000 kernel weight, lower mineral content) than the 5-YA, and the protein content was essentially the same. The milling was slightly poorer this year, showing a 1.0% higher flour extraction but 2 points higher flour mineral content. The absorption was 1.8% more than the 5-YA, which one would not expect with essentially the same flour protein. The mixing time was somewhat shorter than the 5-YA. The dough characteristics were slightly weaker. The crumb color and crumb grain were almost equal and the loaf volume was somewhat lower than the 5-YA.

Results of a comparison of the 1976 and 1975 crop results showed the 1976 crop to be similar to the 1975 crop. In general, the kernel characteristics (test weight, 1000 kernel weight, lower mineral content) were better and protein content was 0.3% lower. The milling was slightly better in reflecting 2 points lower flour mineral content. The baking absorption was 0.5% less than last year with slightly shorter mixing time and weaker dough but with equal crumb color and grain, and loaf volume.

The average results of the varieties Chris, Justin, and Selkirk for each of the individual areas were used as standards for the other selections from that area; therefore, a variety or selection may be rated satisfactory in two different areas, but comparison of the data may show much poorer results for one area due to adverse environmental conditions. Thus, in actuality, the sample with poor results could be rated as unsatisfactory quality wise when compared to the overall spring wheat area, even though it may be rated as showing good promise for one area.

By using a new format and employment of the computer, all named varieties receive a general evaluation. Only those varieties in the "Good Promise" category could be consistently considered as acceptable to the trade both in the domestic as well as foreign markets. However, in order to be brief, the varieties may be broadly classified as follows:

<u>Butte</u>	(3.4 - 5/1)	-	Some Promise
<u>Chris</u>	(3.9 - 8/0)	-	Good Promise
<u>Era</u>	(1.6 - 8/11)	-	Little Promise



Justin (3.6 - 2/0) - Good Promise

Marquis (2.7 - 12/4) - Some Promise

Selkirk (2.7 - 15/1) - Some Promise

Waldron (3.4 - 7/1) - Some Promise

MN II-62-48

Kernel Characteristics - Questionable to Unsatisfactory. Low protein content.

Milling Performance - Very Satisfactory.

Baking Evaluation - Questionable to Unsatisfactory. Low absorption and tendency for weak dough.

General Evaluation - Based on the results of this crop year, this selection would show little promise as a new variety due to low protein content and baking absorption.

MN II-64-27 (3.0 - 39/5)

Kernel Characteristics - Questionable. Low protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Questionable. Tendency for minimum absorption, long mixing time, and variable dough-handling properties.

General Evaluation - Based on this year's crop results, this selection would show some promise as a new variety because of erratic results.

The Prospect - Based on five crop years, this selection would show little promise as a new variety primarily because of low protein and variable dough-handling properties.

MN 7086 (2.5 - 6/3)

Kernel Characteristics - Questionable to Satisfactory. Minimal protein content.

Milling performance - Satisfactory to Questionable. Erratic flour mineral content at 65% extraction.

Baking Evaluation - Questionable to Satisfactory. Tendency to low absorption.

1890 1891 1892
1893 1894 1895
1896 1897 1898
1899 1900 1901

1902 1903 1904
1905 1906 1907
1908 1909 1910
1911 1912 1913

1914 1915 1916
1917 1918 1919
1920 1921 1922
1923 1924 1925

1926 1927 1928
1929 1930 1931
1932 1933 1934
1935 1936 1937

1938 1939 1940
1941 1942 1943
1944 1945 1946
1947 1948 1949

1950 1951 1952
1953 1954 1955
1956 1957 1958
1959 1960 1961

MN 7086 (Cont'd.)

General Evaluation - Based on this crop year's results, this selection would show little promise as a new variety due to minimal protein content, tendency to high mineral content at 65% extraction, and low baking absorption.

The Prospect - This selection would show little promise as a new variety based on two crop years' results due to minimal protein and low baking absorption.

MN 70113 (3.5 - 7/0)

Kernel Characteristics - Satisfactory to Questionable. Tendency to low protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory.

General Evaluation - This selection would show some promise as a new variety based on this year's crop results, although it does have a tendency for minimum protein.

The Prospect - Based on two crop years, this selection would show good promise as a new variety, even though it has a tendency for low protein.

MN 70170

Kernel Characteristics - Satisfactory to Questionable. Tendency towards small kernels.

Milling Performance - Satisfactory.

Baking Evaluation - Questionable to Satisfactory. Erratic absorption.

General Evaluation - Based on this year's crop results, this selection would show some promise as a new variety.

MN 70175 (1.8 - 8/8)

Kernel Characteristics - Questionable. Low 1000 kernel weight, percentage of large kernels, and protein content.

Milling Performance - Satisfactory to Questionable. Tendency for large protein drop between wheat and flour.

Baking Evaluation - Unsatisfactory to Questionable. Low absorption.



MN 70175 (Cont'd.)

General Evaluation - This selection would show no promise as a new variety based on this year's crop results.

The Prospect - Based on two crop year's results, this selection would show no promise as a new variety due to poor kernel size and low baking absorption.

MN 70202

Kernel Characteristics - Satisfactory to Questionable. Tendency towards low protein content.

Milling Performance - Satisfactory to Questionable. Tendency for high mineral content at 65% extraction.

Baking Evaluation - Satisfactory to Questionable. Tendency for erratic results.

General Evaluation - Based on this year's crop results, this selection would show some promise as a new variety.

MN 7125

Kernel Characteristics - Questionable. Low protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory.

General Evaluation - Based on this year's crop results, this selection would show little promise as a new variety due to low protein content.

MN 7142

Kernel Characteristics - Satisfactory to Questionable. Minimal protein content.

Milling Performance - Satisfactory. Tendency for large protein drop between wheat and flour.

Baking Evaluation - Unsatisfactory. Long mixing time.

General Evaluation - Based on this year's crop results, this selection would show no promise as a new variety due to too long mixing time.



MN 7155

Kernel Characteristics - Questionable to Unsatisfactory. Low protein content.

Milling Performance - Questionable to Satisfactory. Erratic results.

Baking Evaluation - Questionable to Unsatisfactory. Long mixing time.

General Evaluation - Based on this year's crop results, this selection would show no promise as a new variety due to low protein, erratic milling performance, and long mixing time.

MN 7170

Kernel Characteristics - Unsatisfactory to Questionable. Low protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Unsatisfactory. Low absorption and loaf volume.

General Evaluation - This selection would show no promise as a new variety due to low protein, absorption, and loaf volume.

MT 749

Kernel Characteristics - Questionable to Satisfactory. Minimum percentage of large kernels and protein content.

Milling Performance - Satisfactory to Questionable. Minimal percent extraction.

Baking Evaluation - Satisfactory.

General Evaluation - Based on this year's crop results, this selection would show some promise as a new variety.

MT 7416

Kernel Characteristics - Questionable. Minimal protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory to Questionable. Somewhat erratic results.

General Evaluation - This selection would show good promise as a new variety based on this year's results, although it does have minimal protein content.



ND 522 (3.0 - 4/1)

Kernel Characteristics - Satisfactory.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory to Questionable. Erratic results with tendency for low absorption and strong dough.

General Evaluation - Based on this crop year's results, this selection would show some promise as a new variety.

The Prospect - This selection would show some promise as a new variety based on two crop years' results, although it does give somewhat erratic results.

ND 531 (2.5 - 8/2)

Kernel Characteristics - Satisfactory to Questionable. Tendency toward light and small kernels and maximal wheat mineral content.

Milling Performance - Questionable. High flour mineral content at 65% extraction.

Baking Evaluation - Satisfactory to Questionable. Tendency for erratic results.

General Evaluation - This selection would show some promise as a new variety based on this year's crop results.

The Prospect - Based on two crop years' results, this selection would show little promise as a new variety due to the high flour mineral content and somewhat erratic baking results.

ND 536

Kernel Characteristics - Questionable to Satisfactory. Low percentage of large kernels.

Milling Performance - Questionable to Satisfactory. Minimal flour extraction.

Baking Evaluation - Questionable to Satisfactory. Minimal dough strength.

General Evaluation - This selection would show some promise as a new variety, although it has minimal kernel size, flour extraction, and dough strength.



ND 538

Kernel Characteristics - Satisfactory to Questionable. Small percentage of large kernels.

Milling Performance - Questionable to Satisfactory. Maximum flour mineral content at 65% extraction.

Baking Evaluation - Satisfactory to Questionable. Tendency for weak dough.

General Evaluation - Based on this crop year's results, this selection would show some promise as a new variety, although it has minimal size kernels and maximum flour mineral content.

ND 541

Kernel Characteristics - Satisfactory to Questionable. Tendency towards small kernel size.

Milling Performance - Satisfactory to Questionable. Tendency for erratic results.

Baking Evaluation - Satisfactory to Questionable. Tendency for a weak dough.

General Evaluation - This selection would show some promise as a new variety based on this year's crop results.

ND 542

Kernel Characteristics - Satisfactory to Questionable. Maximal wheat mineral content.

Milling Performance - Satisfactory to Questionable. Tendency for erratic results.

Baking Evaluation - Satisfactory to Questionable. Tendency for weak dough.

General Evaluation - Based on this crop year's results, this selection would show some promise as a new variety.

ND 543

Kernel Characteristics - Satisfactory.

Milling Performance - Satisfactory to Questionable. Tendency for erratic results.

Baking Evaluation - Satisfactory to Questionable. Tendency for erratic results.



ND 543 (Cont'd.)

General Evaluation - This selection would show some promise as a new variety based on this year's crop results.

ND 544

Kernel Characteristics - Satisfactory to Questionable. Erratic wheat protein content.

Milling Performance - Unsatisfactory to Questionable. High flour mineral content at 65% extraction.

Baking Evaluation - Satisfactory to Questionable. Tendency for long mixing time.

General Evaluation - Based on this year's crop results, this selection would show little promise as a new variety due to the high flour mineral content at 65% extraction.

SD 2271

Kernel Characteristics - Satisfactory.

Milling Performance - Satisfactory. Very good milling.

Baking Evaluation - Satisfactory.

General Evaluation - This selection would show good promise as a new variety based on this year's crop results.

SD 2273

Kernel Characteristics - Satisfactory to Questionable. Tendency for minimal protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory to Questionable. Tendency for erratic results.

General Evaluation - Based on this year's crop results, this selection would show good promise as a new variety.

SD 2288

Kernel Characteristics - Satisfactory to Questionable. Tendency for minimal protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Unsatisfactory to Questionable. Weak dough, low absorption, and minimal loaf volume.



SD 2288 (Cont'd.)

General Evaluation - This selection would show no promise as a new variety based on this year's crop results due to baking properties.

WI H678-1-64311

Kernel Characteristics - Satisfactory to Questionable. Tendency for minimal protein content.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory to Questionable. Somewhat erratic results.

General Evaluation - Based on this year's results, this selection would show some promise as a new variety.

SPECIAL SAMPLES FROM CARRINGTON, ND

MP 54

Kernel Characteristics - Unsatisfactory. Small and light kernel size.

Milling Performance - Unsatisfactory. High flour mineral content at 65% extraction.

Baking Evaluation - Unsatisfactory. Weak dough, low loaf volume, and short mixing time.

General Evaluation - Based on this sample, this selection would show no promise as a new variety, due to deficiencies in all categories.

72-101A

Kernel Characteristics - Unsatisfactory. Small and light kernel size.

Milling Performance - Unsatisfactory. High flour mineral content at 65% extraction.

Baking Evaluation - Unsatisfactory. Weak dough, low loaf volume, and long mixing time.

General Evaluation - This selection would show no promise as a new variety based on this crop year's results.



FIELD PLOT NURSERY SAMPLES - 1976 CROP

Ninety-seven samples were received from four states and five stations. The data for the individual samples are given in Tables 6 through 10. The yearly averages are not given as in previous years, since a better comparison is given with the URN data (Table 4). The milling and baking standard Waldron blend was used for the Wisconsin samples, since a comparably grown check variety was not included. Ellar was the standard for the South Dakota samples. An average of all of the named varieties was used as a standard for the California samples.

CALIFORNIA SAMPLES

Seventeen samples were received from the El Centro station. All of these samples were the named varieties, semidwarfs or semidwarf selections. The named varieties Cajeme 71, Jupateco, Mochis 73, Portolar, Probred, Tanori 71, Toluca 73, and Yecora Rojo were used as a standard. The results for each variety are given in Table 6. Only the data using the named varieties as the standard are given, since the Waldron check being higher in protein caused all of the samples to be rated no promise primarily on the basis of protein content.

NORTH DAKOTA SAMPLES

Sixty-five samples were received from the Dickinson and the Williston, North Dakota stations. Thirty-eight samples were the named varieties which have been released. The data are given in Tables 7 and 8. Chris was used as the standard for the Dickinson samples, and Chris and Justin were used for the Williston samples.

SOUTH DAKOTA SAMPLES

Four samples were received from the Brookings station. Two were the named varieties Ellar and Era. The data are given in Table 9. Ellar was used as the standard for the other samples.

WISCONSIN SAMPLES

Ten samples were received from the Madison, Wisconsin station. These six samples were the commercially named varieties.

The milling and baking standard Waldron blend was used as a check for these samples since comparably grown check varieties were not included in the series. Data for these samples are given in Table 10.

THEORY OF THE EARTH

The theory of the earth is a branch of geology which deals with the origin and development of the earth and its various parts. It is a science which seeks to explain the processes which have shaped the earth and its features. The theory of the earth is based on the study of the earth's structure and the forces which have acted upon it. It is a science which is constantly developing as new discoveries are made and new theories are proposed.

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INTERNATIONAL SAWFLY NURSERY SAMPLES - 1976 CROP

One hundred-sixty samples were received from two stations in Montana and three stations in North Dakota. Twenty samples were received from each of the stations: Havre and Sidney, Montana; and Fargo, Minot, and Williston, North Dakota. Six of these samples were the named varieties: Chris, Fortuna, Lew, Thatcher, Tioga, and Waldron. Fourteen of the samples were the selections: CN 806731, MT 7340, MT 7548, MT 7549, MT 7554, MT 7567, S 7003, S 7064, S 7068, SU 7, SU 56, SU 81, SU 281, and SU 282. The data for these samples from the individual stations are given in Tables 11 through 14. In Table 14 are the averages for these data. Again, averages and blends may not reflect the range of response of a selection or variety to environmental conditions; therefore, averages of the general evaluation, number of total deficiencies, and the number of major deficiencies are given as they were for the Field Plot series and the Uniform Regional Nursery series. The varieties Fortuna, Thatcher, and Tioga from each station was averaged for a standard of performance and results of the individual samples were compared to this average. The data for the secondary sawfly nurseries are in Tables 15 and 16.

<u>Chris</u>	(2.6 - 28/8)	-	Some Promise
<u>Fortuna</u>	(3.3 - 17/0)	-	Some Promise
<u>Lew</u>	(2.0 - 10/2)	-	Little Promise
<u>Thatcher</u>	(2.2 - 29/12)	-	Little Promise
<u>Tioga</u>	(3.5 - 6/2)	-	Good Promise
<u>Waldron</u>	(2.9 - 8/1)	-	Some Promise
<u>CN 806731</u>			

Kernel Characteristics - Unsatisfactory. Light and small kernel size.

Milling Performance - Questionable. Tendency for high flour mineral content at 65% extraction.

Baking Evaluation - Questionable to Unsatisfactory. Low absorption and tendency to long mixing time.

General Evaluation - Based on this year's crop results, this selection would show no promise as a new variety due to deficiencies in each category.

MT 7340

Kernel Characteristics - Questionable to Satisfactory. Tendency for low protein content.

Milling Performance - Questionable. Low extraction and maximum flour mineral content at 65% extraction.

Baking Evaluation - Unsatisfactory. Low absorption, long mixing time, and undesirable dough properties.

General Evaluation - Based on this year's crop results, this selection would show no promise as a new variety, since it is deficient in all categories.

The Prospect - Based on three crop years' results, this selection would show no promise as a new variety due to minimal protein content and flour extraction, maximal flour mineral content, low bake absorption, long mixing time, and undesirable dough properties.

MT 7548

Kernel Characteristics - Unsatisfactory. Low test weight, kernel weight, large kernels, and protein content, and high amount of small kernels.

Milling Performance - Unsatisfactory. Low extraction and high flour mineral content at 65% extraction.

Baking Evaluation - Questionable. Minimal absorption.

General Evaluation - Unsatisfactory. Based on this year's crop results, this selection would show no promise as a new variety due to poor kernel characteristics and milling performance.

MT 7549

Kernel Characteristics - Unsatisfactory. Low test weight, kernel weight, large kernels, and protein content, and high amount of small kernels.

Milling Performance - Unsatisfactory. Low extraction and high flour mineral content at 65% extraction.

Baking Evaluation - Questionable to Unsatisfactory. Low absorption and weak dough.

General Evaluation - This selection would show no promise as a new variety based on this year's crop results.

MT 7554

Kernel Characteristics - Unsatisfactory. Low test weight, kernel weight, large kernels, and wheat protein.

Milling Performance - Questionable to Unsatisfactory. Minimal extraction and maximum flour mineral content at 65% extraction.

Baking Evaluation - Questionable. Minimal absorption, maximum mixing time, and weak dough properties.

General Evaluation - Based on this year's crop results, this selection would show no promise as a new variety because of deficiencies in each category.

MT 7567

Kernel Characteristics - Unsatisfactory. Low test weight, kernel weight, large kernels, and wheat protein, and high amount of small kernels.

Milling Performance - Unsatisfactory to Questionable. Low extraction and tendency for high mineral content at 65% extraction.

Baking Evaluation - Questionable to Unsatisfactory. Low absorption and maximal mixing time.

General Evaluation - Based on this crop year's results, this selection would show no promise as a new variety due to deficiencies in all categories.

S 7003

Kernel Characteristics - Satisfactory to Questionable. Tendency for low test weight and low protein content.

Milling Performance - Satisfactory to Questionable. Tendency for maximum mineral content at 65% extraction.

Baking Evaluation - Satisfactory to Questionable. Tendency for erratic absorption and weak dough.

General Evaluation - This selection would show some promise based on this year's crop results.

The Prospect - Based on three crop years' results, this selection would show some promise as a new variety but it does give erratic results.

S 7064

Kernel Characteristics - Satisfactory.

S 7064 (Cont'd.)

Milling Performance - Satisfactory to Questionable. Tendency to give minimum flour extraction.

Baking Evaluation - Satisfactory to Questionable. Tendency for weak dough.

General Evaluation - This selection would show some promise as a new variety based on this year's crop results.

The Prospect - Based on three years' crop results, this selection would show some promise as a new variety primarily due to milling performance and weak dough.

S 7068

Kernel Characteristics - Satisfactory to Questionable. Tendency for small amount of large kernels.

Milling Performance - Questionable. Tendency for low flour extraction and maximum flour mineral content at 65% extraction.

Baking Evaluation - Questionable. Tendency for low absorption, weak dough, and long mixing time.

General Evaluation - This selection would show little promise as a new variety based on this year's crop results, due to poor extraction and baking characteristics.

The Prospect - Based on three years' crop results, this selection would show little promise as a new variety due to milling performance and baking characteristics.

SU 7

Kernel Characteristics - Unsatisfactory to Questionable. Low test weight.

Milling Performance - Questionable. Minimal extraction.

Baking Evaluation - Questionable to Unsatisfactory. Low absorption and weak dough.

General Evaluation - This selection would show little promise as a new variety based on this year's crop results, due to deficiencies in each category.

The Prospect - Based on three crop years' results, this selection would show little promise as a new variety due to low test weight, flour extraction, and bake absorption, and weak dough characteristics.

SU 56

Kernel Characteristics - Satisfactory to Questionable. Small amount of large kernels.

Milling Performance - Satisfactory to Questionable. Tendency to low extraction.

Baking Evaluation - Satisfactory to Questionable. Erratic results.

General Evaluation - This selection would show little promise as a new variety based on this year's crop results, due to the erratic results.

SU 81

Kernel Characteristics - Satisfactory.

Milling Performance - Satisfactory to Questionable. Minimum extraction.

Baking Evaluation - Questionable to Satisfactory. Erratic absorption and minimum loaf volume.

General Evaluation - Based on this year's crop results, this selection would show little promise as a new variety due to erratic results.

SU 281

Kernel Characteristics - Satisfactory.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory to Questionable. Somewhat erratic results.

General Evaluation - This selection would show some promise as a new variety based on this year's crop results, due to somewhat erratic milling and baking results.

SU 282

Kernel Characteristics - Satisfactory.

Milling Performance - Satisfactory.

Baking Evaluation - Satisfactory.

General Evaluation - Based on this year's crop results, this selection would show some promise as a new variety.

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

11/ CLFAN QRY - SUBTRACT 1 LB./RU. FOR PACKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.
3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.
4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.
5/ REFER TO REFERENCE MIXTURES FOR NUMERICAL CURVE PATTERNS. (1 = FAVORABLE, 2 = PLATEAU, 3 = PLATEAU-CLIMB, 4 = PLATEAU-CLIMB-TO-VERY STRONG)
6/ XXX.00 = MEDIUM, XXX.01 = THICK, XXX.02 = THICK, XXX.03 = THICK, XXX.04 = THICK, XXX.05 = THICK, XXX.06 = THICK, XXX.07 = THICK, XXX.08 = THICK, XXX.09 = THICK, XXX.10 = THICK, XXX.11 = THICK, XXX.12 = THICK, XXX.13 = THICK, XXX.14 = THICK, XXX.15 = THICK, XXX.16 = THICK, XXX.17 = THICK, XXX.18 = THICK, XXX.19 = THICK, XXX.20 = THICK, XXX.21 = THICK, XXX.22 = THICK, XXX.23 = THICK, XXX.24 = THICK, XXX.25 = THICK, XXX.26 = THICK, XXX.27 = THICK, XXX.28 = THICK, XXX.29 = THICK, XXX.30 = THICK, XXX.31 = THICK, XXX.32 = THICK, XXX.33 = THICK, XXX.34 = THICK, XXX.35 = THICK, XXX.36 = THICK, XXX.37 = THICK, XXX.38 = THICK, XXX.39 = THICK, XXX.40 = THICK, XXX.41 = THICK, XXX.42 = THICK, XXX.43 = THICK, XXX.44 = THICK, XXX.45 = THICK, XXX.46 = THICK, XXX.47 = THICK, XXX.48 = THICK, XXX.49 = THICK, XXX.50 = THICK, XXX.51 = THICK, XXX.52 = THICK, XXX.53 = THICK, XXX.54 = THICK, XXX.55 = THICK, XXX.56 = THICK, XXX.57 = THICK, XXX.58 = THICK, XXX.59 = THICK, XXX.60 = THICK, XXX.61 = THICK, XXX.62 = THICK, XXX.63 = THICK, XXX.64 = THICK, XXX.65 = THICK, XXX.66 = THICK, XXX.67 = THICK, XXX.68 = THICK, XXX.69 = THICK, XXX.70 = THICK, XXX.71 = THICK, XXX.72 = THICK, XXX.73 = THICK, XXX.74 = THICK, XXX.75 = THICK, XXX.76 = THICK, XXX.77 = THICK, XXX.78 = THICK, XXX.79 = THICK, XXX.80 = THICK, XXX.81 = THICK, XXX.82 = THICK, XXX.83 = THICK, XXX.84 = THICK, XXX.85 = THICK, XXX.86 = THICK, XXX.87 = THICK, XXX.88 = THICK, XXX.89 = THICK, XXX.90 = THICK, XXX.91 = THICK, XXX.92 = THICK, XXX.93 = THICK, XXX.94 = THICK, XXX.95 = THICK, XXX.96 = THICK, XXX.97 = THICK, XXX.98 = THICK, XXX.99 = THICK, XXX.00 = THICK.
7/ XXX.00 = SOFT, XXX.01 = THICK, XXX.02 = THICK, XXX.03 = THICK, XXX.04 = THICK, XXX.05 = THICK, XXX.06 = THICK, XXX.07 = THICK, XXX.08 = THICK, XXX.09 = THICK, XXX.10 = THICK, XXX.11 = THICK, XXX.12 = THICK, XXX.13 = THICK, XXX.14 = THICK, XXX.15 = THICK, XXX.16 = THICK, XXX.17 = THICK, XXX.18 = THICK, XXX.19 = THICK, XXX.20 = THICK, XXX.21 = THICK, XXX.22 = THICK, XXX.23 = THICK, XXX.24 = THICK, XXX.25 = THICK, XXX.26 = THICK, XXX.27 = THICK, XXX.28 = THICK, XXX.29 = THICK, XXX.30 = THICK, XXX.31 = THICK, XXX.32 = THICK, XXX.33 = THICK, XXX.34 = THICK, XXX.35 = THICK, XXX.36 = THICK, XXX.37 = THICK, XXX.38 = THICK, XXX.39 = THICK, XXX.40 = THICK, XXX.41 = THICK, XXX.42 = THICK, XXX.43 = THICK, XXX.44 = THICK, XXX.45 = THICK, XXX.46 = THICK, XXX.47 = THICK, XXX.48 = THICK, XXX.49 = THICK, XXX.50 = THICK, XXX.51 = THICK, XXX.52 = THICK, XXX.53 = THICK, XXX.54 = THICK, XXX.55 = THICK, XXX.56 = THICK, XXX.57 = THICK, XXX.58 = THICK, XXX.59 = THICK, XXX.60 = THICK, XXX.61 = THICK, XXX.62 = THICK, XXX.63 = THICK, XXX.64 = THICK, XXX.65 = THICK, XXX.66 = THICK, XXX.67 = THICK, XXX.68 = THICK, XXX.69 = THICK, XXX.70 = THICK, XXX.71 = THICK, XXX.72 = THICK, XXX.73 = THICK, XXX.74 = THICK, XXX.75 = THICK, XXX.76 = THICK, XXX.77 = THICK, XXX.78 = THICK, XXX.79 = THICK, XXX.80 = THICK, XXX.81 = THICK, XXX.82 = THICK, XXX.83 = THICK, XXX.84 = THICK, XXX.85 = THICK, XXX.86 = THICK, XXX.87 = THICK, XXX.88 = THICK, XXX.89 = THICK, XXX.90 = THICK, XXX.91 = THICK, XXX.92 = THICK, XXX.93 = THICK, XXX.94 = THICK, XXX.95 = THICK, XXX.96 = THICK, XXX.97 = THICK, XXX.98 = THICK, XXX.99 = THICK, XXX.00 = THICK.
8/ XXX.00 = SLIGHTLY IRREGULAR, OPEN, XXX.70 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY IRREGULAR, XXX.99 = NORMAL.
9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 3

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.M. #/BU.	1000 K.T.	KERNEL SIZE LG MED 54	WHT. MIN.	WHT. 2L	KERN. PRO.	KERN. EXT.	FLR. MIN.	FLR. EXT.	FLR. 65EX.	MLG. PRO.	MLG. CHAR.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE AUS.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMB GRAIN	LOAF VOL.	BAKE EVAL.	GEN. EVAL.	MAJOR DEFICIENCY
MINOT, NORTH DAKOTA																								
CHRIS	60.5	25.3	13	25	2	1.45	16.6	3	63.5	0.36	16.4	1	2	62.8	3	62.8	3-25	3	102.0	82.05	197	2	4	KW LG
ERA	60.5	33.8	55	43	2	1.54	14.1	8	64.4	0.37	17.6	1	2	59.0	3	59.0	3-50	3	102.9	91.99	184	8	1	WM BA OJ
JUSTIN	60.5	30.1	18	28	1	1.40	17.4	2	60.5	0.36	16.2	2	5	63.5	2	63.5	2-50	4	101.0	88.00	192	2	4	WM M65 OJ
MARQUIS	60.5	30.1	22	29	1	1.50	17.4	2	60.5	0.36	16.2	2	5	63.5	2	63.5	2-50	4	101.0	88.00	192	2	4	WM M65 OJ
SELKIRK	60.5	29.8	12	25	3	1.42	15.5	6	60.6	0.39	15.3	1	2	62.3	5	62.3	4-25	3	101.0	89.99	183	2	4	TM LG WP
WALDRON																								
NO 521	60.0	29.5	32	66	2	1.54	16.5	2	62.8	0.39	16.0	1	3	62.5	5	62.5	4-75	3	102.0	86.10	199	2	4	WM OJ
NO 522	60.0	34.5	66	33	1	1.66	16.6	2	61.1	0.36	16.4	2	3	62.8	6	62.8	4-75	4	101.7	87.99	189	4	3	WM EX M65 LV
NO 523	60.0	33.7	53	45	2	1.65	17.1	3	60.0	0.40	16.9	2	6	64.2	3	64.2	2-75	5	100.4	86.99	162	8	1	WM EX M65 LV
MT 711	62.5	33.0	22	74	4	1.39	15.3	5	62.6	0.41	15.1	1	4	64.4	8	64.4	7-50	3	101.8	86.99	208	3	3	SM WP M65 MT
MT 7031	61.0	29.9	24	75	1	1.56	16.6	2	60.0	0.34	16.1	2	4	65.3	3	65.3	4-50	3	102.9	83.05	210	2	3	EX
MT 7156																								
NO 528	62.0	31.6	44	54	2	1.46	15.3	5	56.8	0.47	15.1	3	8	63.2	7	63.2	3-75	3	101.0	84.99	197	2	1	WP
NO 529	62.0	31.6	44	54	2	1.46	15.3	5	56.8	0.47	15.1	3	8	63.2	7	63.2	3-75	3	101.0	84.99	197	2	1	WP
NO 530	60.0	30.1	24	74	2	1.52	16.3	2	60.7	0.41	16.9	1	2	66.3	6	66.3	5-25	3	101.0	89.99	203	1	3	EX M65
NO 519	61.5	28.7	21	78	1	1.37	15.3	4	63.4	0.35	14.8	1	2	65.3	4	65.3	4-25	3	100.0	90.99	193	1	4	WP
NO 521																								
NO 522	60.0	34.5	57	42	1	1.84	18.1	8	59.0	0.44	17.9	3	8	67.6	5	67.6	3-25	3	101.0	81.05	185	2	1	WM EX M65
NO 523	60.0	31.7	41	58	1	1.80	18.7	3	58.9	0.53	18.5	2	8	68.5	6	68.5	4-50	3	101.0	88.10	171	2	1	LV
NO 526	60.0	31.7	43	55	1	1.66	16.8	2	61.3	0.43	16.4	2	8	64.2	5	64.2	4-00	5	101.8	89.99	187	8	1	WM
NO 527	61.5	23.6	20	77	3	1.54	17.1	3	64.6	0.41	16.9	1	4	65.0	6	65.0	4-75	4	101.0	86.09	185	4	2	KW M65 OJ
NO 528																								
NO 528	60.0	34.1	56	43	1	1.88	17.0	2	61.8	0.41	16.8	1	5	65.0	5	65.0	4-50	3	102.5	84.09	193	2	3	M65
NO 529	60.0	29.2	8	90	2	1.38	15.6	5	61.1	0.35	15.0	2	3	60.3	6	60.3	4-75	3	101.0	85.05	216	8	1	LG WP
MT 2627	60.0	30.2	23	74	3	1.50	15.8	4	63.2	0.37	15.5	1	2	62.5	6	62.5	5-25	4	101.0	88.99	192	4	3	OO
WILLISTON, NORTH DAKOTA																								
CHRIS	55.5	18.2	1	72	27	1.59	18.2	3	63.0	0.43	18.0	1	3	65.0	4	65.0	3-75	4	101.7	87.09	178	2	4	KW MT OJ
ERA	58.0	19.6	1	67	32	1.56	16.7	5	65.2	0.41	16.5	1	2	64.7	6	64.7	6-50	3	102.8	89.09	202	5	3	WM BA OJ
JUSTIN	56.0	21.1	1	87	12	1.60	18.7	2	63.4	0.43	18.5	1	2	67.3	7	67.3	5-00	4	100.5	85.05	179	2	4	WM BA OJ
MARQUIS	56.0	20.8	1	76	23	1.73	17.7	3	62.3	0.44	17.5	1	3	64.2	4	64.2	3-50	6	100.0	88.09	181	6	2	BA OJ
SELKIRK	54.0	21.0	1	72	27	1.63	17.9	3	64.0	0.43	17.7	1	3	64.2	4	64.2	3-50	6	98.0	89.05	195	6	2	BA OJ
WALDRON																								
NO 521	56.0	22.3	1	85	14	1.60	18.1	2	63.0	0.45	17.9	1	3	65.7	6	65.7	5-50	4	100.5	88.99	189	2	4	M65
NO 522	58.5	22.4	1	87	12	1.57	17.2	3	62.2	0.43	17.0	1	3	65.7	6	65.7	5-50	4	99.0	89.99	190	4	3	WM BA
NO 523	55.5	19.3	1	59	40	1.67	18.6	3	61.4	0.46	18.4	1	5	66.3	9	66.3	4-25	6	101.5	88.99	182	4	2	SM M65 OJ
MT 711	58.0	23.3	1	78	21	1.68	18.2	2	63.0	0.44	18.0	1	3	65.7	9	65.7	9-25	3	102.8	86.09	218	8	1	OO
MT 7031	57.0	21.5	1	86	13	1.55	17.9	2	61.4	0.33	17.5	1	3	65.0	4	65.0	4-25	5	100.0	85.05	196	2	4	MT
MT 7156																								
NO 528	58.0	22.7	1	87	12	1.45	16.9	4	59.5	0.39	16.7	2	4	64.4	5	64.4	4-00	5	100.8	85.05	197	4	2	WP BA
NO 529	58.0	20.0	1	72	27	1.62	18.3	2	63.3	0.43	17.8	1	3	66.0	7	66.0	8-25	4	100.5	89.99	193	8	1	OO
NO 530	58.5	20.3	1	72	26	1.55	18.0	2	63.4	0.43	17.5	1	3	67.3	5	67.3	4-75	6	102.7	81.07	189	6	1	BA OJ
NO 519	60.0	22.5	0	81	19	1.45	16.9	2	61.1	0.48	16.6	1	3	64.2	4	64.2	4-00	5	102.6	88.99	175	4	1	WP BA
NO 521																								
NO 521	58.0	22.7	1	88	11	1.65	18.0	2	60.9	0.42	17.6	1	4	63.2	3	63.2	3-25	6	102.6	86.07	185	7	1	EX OJ
NO 522	55.5	24.7	2	87	11	1.58	18.1	2	60.7	0.46	17.9	1	6	65.7	7	65.7	6-75	5	101.5	87.09	184	3	2	EX M65 MT
NO 523	55.5	21.2	0	85	15	1.76	19.7	8	59.8	0.49	19.5	1	8	67.0	6	67.0	4-50	4	101.5	83.05	184	2	1	WM
NO 526	58.5	22.5	1	86	13	1.67	17.6	3	61.4	0.48	17.2	1	8	63.8	5	63.8	5-75	6	102.5	86.99	186	6	1	BA OJ
NO 527	59.5	19.4	0	75	25	1.62	18.0	2	61.4	0.49	17.6	1	8	65.0	6	65.0	5-00	4	101.5	85.09	183	2	1	LG M65
NO 528																								
NO 528	56.0	23.4	2	87	11	1.59	17.9	2	60.6	0.47	17.7	1	8	66.3	8	66.3	7-50	3	101.5	85.05	184	6	1	EX MT OJ
NO 529	58.0	21.4	0	84	32	1.49	16.8	2	61.2	0.43	16.1	1	5	62.3	3	62.3	5-25	3	103.6	90.99	211	8	1	WP OJ
MT 2627	57.0	21.9	0	71	29	1.59	17.3	2	60.0	0.43	17.1	1	5	62.8	6	62.8	5-25	3	103.6	91.99	193	8	1	WP EX OJ

1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.M.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

5/ REFER TO REFERENCE MICROGRAPHS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK, 11 = VERY STRONG)

6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-P, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

7/ XXX-9 = BRIGHT WHITE, XXX-8 = WHITE, XXX-7 = SLIGHTLY CREAMY, XXX-6 = CREAMY, XXX-5 = VERY CREAMY, XXX-4 = GRAY, XXX-3 = DULL GRAY, XXX-2 = VERY GRAY, XXX-1 = VERY DARK GRAY.

8/ XXX-00 = SUGGY, XXX-01 = THICK ORY, XXX-02 = LOSS, XXX-03 = LOSS, XXX-04 = LOSS, XXX-05 = LOSS, XXX-06 = LOSS, XXX-07 = LOSS, XXX-08 = LOSS, XXX-09 = LOSS, XXX-10 = LOSS, XXX-11 = LOSS, XXX-12 = LOSS, XXX-13 = LOSS, XXX-14 = LOSS, XXX-15 = LOSS, XXX-16 = LOSS, XXX-17 = LOSS, XXX-18 = LOSS, XXX-19 = LOSS, XXX-20 = LOSS, XXX-21 = LOSS, XXX-22 = LOSS, XXX-23 = LOSS, XXX-24 = LOSS, XXX-25 = LOSS, XXX-26 = LOSS, XXX-27 = LOSS, XXX-28 = LOSS, XXX-29 = LOSS, XXX-30 = LOSS, XXX-31 = LOSS, XXX-32 = LOSS, XXX-33 = LOSS, XXX-34 = LOSS, XXX-35 = LOSS, XXX-36 = LOSS, XXX-37 = LOSS, XXX-38 = LOSS, XXX-39 = LOSS, XXX-40 = LOSS, XXX-41 = LOSS, XXX-42 = LOSS,

1974 CROP

1/ CLEAN OBJ = SUBTRACT 1 LBA/RAU FROM DOCKAGE-EPEE T-4.
2/ 1/2 MOISTURE BASIS.
3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.
4/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = UNSATISFACTORY-QUESTIONABLE, 7 = UNSATISFACTORY.
5/ REFER TO REFERENCE MICROGRAMS FOR NOMINAL CURVE PATTERNS. (1 = VFPY WEAK --- (11 = VERY STRONG)
6/ 1 = RUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-WEAK, 6 = WEAK-PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.
7/ XXX-9 = BRIGHT WHITE, XXX-8 = WHITE, XXX-7 = SLIGHTLY CREAMY, XXX-6 = BRIGHT CREAMY, XXX-5 = CREAMY, XXX-4 = VERY CREAMY, XXX-3 = GRAY, XXX-2 = DULL CREAMY, XXX-1 = VERY DULL CREAMY.
8/ XXX-50 = SLIGHTLY IRREGULAR, OPEN, XXX-40 = SLIGHTLY IRREGULAR, OPEN, XXX-30 = SLIGHTLY OPEN-IRREGULAR, XXX-20 = SLIGHTLY IRREGULAR, OPEN, XXX-10 = IRREGULAR, OPEN, XXX-09 = OPEN, XXX-08 = IRREGULAR, OPEN, XXX-07 = IRREGULAR, OPEN, XXX-06 = IRREGULAR, OPEN, XXX-05 = IRREGULAR, OPEN, XXX-04 = IRREGULAR, OPEN, XXX-03 = IRREGULAR, OPEN, XXX-02 = IRREGULAR, OPEN, XXX-01 = IRREGULAR, OPEN, XXX-00 = IRREGULAR, OPEN, XXX-99 = NORMAL.
9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE, 5 = SLIGHTLY IRREGULAR, OPEN, XXX-70 = SLIGHTLY IRREGULAR, OPEN, XXX-60 = SLIGHTLY IRREGULAR, OPEN, XXX-50 = SLIGHTLY IRREGULAR, OPEN, XXX-40 = SLIGHTLY IRREGULAR, OPEN, XXX-30 = SLIGHTLY IRREGULAR, OPEN, XXX-20 = SLIGHTLY IRREGULAR, OPEN, XXX-10 = SLIGHTLY IRREGULAR, OPEN, XXX-09 = SLIGHTLY IRREGULAR, OPEN, XXX-08 = SLIGHTLY IRREGULAR, OPEN, XXX-07 = SLIGHTLY IRREGULAR, OPEN, XXX-06 = SLIGHTLY IRREGULAR, OPEN, XXX-05 = SLIGHTLY IRREGULAR, OPEN, XXX-04 = SLIGHTLY IRREGULAR, OPEN, XXX-03 = SLIGHTLY IRREGULAR, OPEN, XXX-02 = SLIGHTLY IRREGULAR, OPEN, XXX-01 = SLIGHTLY IRREGULAR, OPEN, XXX-00 = SLIGHTLY IRREGULAR, OPEN, XXX-99 = NORMAL.
10/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE, 5 = SLIGHTLY IRREGULAR, OPEN, XXX-70 = SLIGHTLY IRREGULAR, OPEN, XXX-60 = SLIGHTLY IRREGULAR, OPEN, XXX-50 = SLIGHTLY IRREGULAR, OPEN, XXX-40 = SLIGHTLY IRREGULAR, OPEN, XXX-30 = SLIGHTLY IRREGULAR, OPEN, XXX-20 = SLIGHTLY IRREGULAR, OPEN, XXX-10 = SLIGHTLY IRREGULAR, OPEN, XXX-09 = SLIGHTLY IRREGULAR, OPEN, XXX-08 = SLIGHTLY IRREGULAR, OPEN, XXX-07 = SLIGHTLY IRREGULAR, OPEN, XXX-06 = SLIGHTLY IRREGULAR, OPEN, XXX-05 = SLIGHTLY IRREGULAR, OPEN, XXX-04 = SLIGHTLY IRREGULAR, OPEN, XXX-03 = SLIGHTLY IRREGULAR, OPEN, XXX-02 = SLIGHTLY IRREGULAR, OPEN, XXX-01 = SLIGHTLY IRREGULAR, OPEN, XXX-00 = SLIGHTLY IRREGULAR, OPEN, XXX-99 = NORMAL.

TABLE 5

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T. % #/BU.	1000 KNT.	SEEDLING		WHT. MIN.	WHT. PRO.	KERN. CHAP.	ELP. EXT.	FIR. PRO.	MLG. PER.	MIX. ABS.	MIX. PAT.	BASE AUS.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMB GRAIN	LOAF VOL.	BAKE EVAL.	GEN. EVAL.	MINOR EFFICIENCY	MAJOR EFFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			LG	SM																			31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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CHRIS	62.3	24.9	4	51	5	1.92	13.0	3	62.1	0.55	12.4	1	3	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	57.2	2	5

1/ CLEAN ORY - SUBTRACT 1 LB./BU. FOR OCKAGE-FREE T.M.

2/ 1% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

5/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

6/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

7/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

8/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

9/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

10/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

11/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

12/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

13/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

14/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

15/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

16/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

17/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

18/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

19/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

20/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

21/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

22/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

23/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

24/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

25/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

26/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

27/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

28/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

29/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

30/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

31/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

32/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

33/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

34/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

35/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

36/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

37/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

38/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

39/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

40/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

41/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

42/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

43/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

44/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

45/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

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49/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

50/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT, 7 = VERY STRONG.

TABLE 6

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1974 CROP

VARIETY DR SEL. NO.	T.W. #/80.	1000 KWT.	KEENELSIZE LG MED SH	MHT. MIN.	MHT. PRO.	MHT. MIN.	FLR. PRO.	FLR. MIN.	EXT. MIN.	KERN. EXT.	CHGR. EXT.	WHT. MIN.	MHT. MIN.	WHT. MIN.	FLR. MIN.	MLG. PRO.	MIX. ABS.	BAKE ABS.	MIX. TIME	ORUGH CHAR.	CRUMB COLOR	CRUMB ZL	CRUMB GRAIN	LOAF BAKE GEN.	MINOR DEFICIENCY	MAJOR DEFICIENCY
BOZEMAN, MONTANA																										
CHRIS	62.5	31.3	43	55	2	1.64	16.0	3	60.2	0.39	15.8	1	2	65.7	3	65.7	3	65.7	2.50	4	101.7	89.07	185	2	4	KW
ERA	64.0	33.6	42	54	4	1.52	12.6	8	63.3	0.61	11.9	1	2	61.9	3	61.9	3	61.9	3.00	5	101.0	90.99	192	8	1	MP 8A
JUSTIN	62.0	36.0	59	39	2	1.67	15.7	2	60.3	0.39	15.2	1	2	66.3	4	66.3	4	66.3	3.50	4	98.5	90.99	179	2	4	M65
MARQUIS	62.5	33.4	51	47	2	1.71	15.7	2	58.6	0.50	15.3	1	8	64.2	3	64.2	3	64.2	2.50	4	99.0	89.07	190	4	1	BA
SELKIPK	50.5	36.1	51	45	4	1.73	15.6	3	61.9	0.39	15.3	1	2	64.2	3	64.2	3	64.2	2.75	6	98.5	89.09	177	6	2	8A 00
WALORDN	61.5	36.8	65	33	2	1.69	15.6	2	61.2	0.38	15.1	1	2	66.3	4	66.3	4	66.3	2.75	4	100.0	90.99	207	2	4	MP 00
MT 6427	64.0	37.5	54	40	2	1.58	14.9	5	60.7	0.37	14.5	1	2	63.5	4	63.5	4	63.5	3.00	4	99.0	90.99	204	4	2	BA 00
MT 711	64.0	39.1	56	40	4	1.55	14.6	5	62.6	0.38	14.3	1	2	64.4	3	64.4	3	64.4	4.25	3	101.5	90.70	184	6	2	MP 00
MT 7031	63.5	34.2	48	50	2	1.58	15.2	3	60.7	0.37	14.3	1	2	64.2	4	64.2	4	64.2	2.75	5	103.0	89.99	202	3	4	8A
MT 7156	64.0	34.0	50	48	2	1.51	13.2	8	57.5	0.37	12.7	2	4	63.2	3	63.2	3	63.2	2.75	5	101.8	90.99	206	4	1	EX
ND 496-153	63.5	36.0	54	44	2	1.61	14.3	5	60.9	0.37	13.6	1	2	63.8	4	63.8	4	63.8	3.75	6	99.0	90.99	185	6	2	BA 00
ND 496-158	63.5	35.1	55	43	2	1.60	14.4	5	61.6	0.38	13.7	1	2	64.2	3	64.2	3	64.2	2.50	6	100.4	87.09	177	6	2	MP 8A
ND 510	63.0	38.2	70	29	1	1.64	15.0	3	60.7	0.37	14.2	1	2	63.2	3	63.2	3	63.2	3.00	3	99.0	89.99	195	7	2	00
ND 519	64.0	33.3	49	49	2	1.59	15.0	3	60.9	0.37	14.4	1	2	64.2	3	64.2	3	64.2	2.50	3	100.0	87.05	181	6	2	BA 00
ND 521	62.0	36.6	66	32	2	1.81	15.7	2	57.7	0.40	15.3	2	5	65.7	4	65.7	4	65.7	2.75	4	100.5	90.90	192	2	3	WM EX
ND 523	62.0	38.6	63	35	2	1.65	14.8	4	60.9	0.36	14.2	1	2	64.2	4	64.2	4	64.2	3.25	5	101.0	90.70	189	4	3	MP 8A
ND 526	62.5	36.9	65	33	2	1.62	15.1	3	60.9	0.36	14.9	1	2	65.7	4	65.7	4	65.7	3.50	4	100.0	89.99	174	2	4	MP 8A
ND 527	64.0	33.3	52	46	2	1.78	15.6	2	59.3	0.38	15.0	1	3	66.0	4	66.0	4	66.0	3.00	6	100.5	92.99	184	4	3	WM 00
ND 528	61.5	37.3	55	43	2	1.60	14.2	5	61.7	0.36	13.7	1	2	64.2	4	64.2	4	64.2	3.00	4	103.6	90.99	179	4	3	BA
ND 529	62.0	32.6	26	72	2	1.62	14.3	6	59.5	0.39	13.6	1	3	64.4	4	64.4	4	64.4	3.50	4	102.0	90.70	200	2	3	LG
MT 2627	61.5	35.8	44	54	2	1.65	14.6	5	58.9	0.40	14.0	1	4	66.0	5	66.0	5	66.0	3.50	3	102.0	90.90	201	4	2	MP 00
HAYDEN, MONTANA																										
CHRIS	56.0	21.6	2	85	13	1.54	14.7	3	61.1	0.38	14.5	1	2	58.7	7	58.7	7	58.7	5.25	3	100.0	89.99	204	4	3	KW LG 8A
ERA	54.5	22.1	1	85	13	1.51	14.4	3	63.7	0.41	13.8	1	3	59.0	10	59.0	10	59.0	6.50	4	100.8	89.99	224	6	2	LG M65 8A 00
JUSTIN	56.0	23.6	6	89	5	1.58	15.5	2	61.3	0.37	15.1	1	2	61.3	7	61.3	7	61.3	6.00	3	100.0	90.99	196	2	4	M65
MARQUIS	56.5	24.6	3	89	8	1.54	14.5	3	59.4	0.42	14.3	1	6	62.3	6	62.3	6	62.3	5.25	3	100.7	89.09	211	2	3	M65
SELKIPK	52.0	24.4	3	89	8	1.50	14.1	5	61.8	0.40	13.9	1	3	61.3	6	61.3	6	61.3	5.75	3	100.7	87.09	205	2	4	TW M65
WALORDN	55.0	24.7	5	89	6	1.54	14.8	2	61.1	0.40	14.5	1	3	62.5	11	62.5	11	62.5	9.00	3	100.0	85.07	232	3	3	M65 MT
MT 6427	57.0	25.1	11	85	4	1.46	14.6	3	62.0	0.39	13.9	1	3	61.3	9	61.3	9	61.3	7.00	3	101.0	89.99	203	2	4	TW KW LG WM
MT 6433	51.5	21.6	2	87	11	1.63	15.7	5	59.7	0.44	15.5	1	8	64.4	7	64.4	7	64.4	8.00	3	101.6	86.99	205	2	1	MT
MT 711	57.0	23.6	1	90	9	1.24	14.8	3	59.7	0.45	14.6	1	3	60.0	11	60.0	11	60.0	8.20	3	101.0	87.09	205	2	1	M65
MT 7031	54.5	24.0	1	90	9	1.54	15.2	3	59.9	0.39	14.8	1	3	61.9	8	61.9	8	61.9	6.50	3	102.0	82.07	222	4	1	LG
MT 7156	56.0	24.3	5	91	4	1.42	13.6	4	57.4	0.39	13.3	2	8	60.7	6	60.7	6	60.7	4.50	4	100.8	89.99	213	4	1	MP 00
ND 496-153	57.0	22.5	1	87	12	1.52	14.9	4	60.4	0.42	14.2	1	5	63.2	11	63.2	11	63.2	14.25	3	100.0	90.99	203	8	1	MP
ND 496-158	55.7	23.8	1	89	10	1.45	14.0	5	61.8	0.39	13.7	1	3	63.8	7	63.8	7	63.8	6.75	3	99.5	91.90	198	1	4	MP
ND 510	55.5	25.2	4	90	6	1.50	14.4	2	59.7	0.39	13.9	1	3	60.0	10	60.0	10	60.0	7.00	3	99.2	87.99	212	2	4	MP
ND 519	58.0	25.3	5	90	5	1.40	14.0	3	62.3	0.36	13.2	1	2	61.3	5	61.3	5	61.3	5.25	3	97.2	86.05	197	2	4	MP
ND 521	55.5	25.4	7	89	4	1.47	14.9	2	59.9	0.36	14.4	1	2	62.5	5	62.5	5	62.5	4.75	3	100.5	84.07	211	2	4	EX MT LV
ND 522	55.0	27.9	8	89	3	1.52	14.8	2	58.5	0.45	14.3	1	8	62.5	10	62.5	10	62.5	9.00	3	101.5	89.99	188	2	3	M65
ND 523	58.0	25.0	3	93	4	1.59	15.6	3	60.6	0.42	13.7	1	8	63.0	6	63.0	6	63.0	5.75	3	100.5	89.99	188	2	1	M65
ND 526	58.0	24.3	2	93	4	1.54	14.7	2	62.7	0.42	13.7	1	8	62.5	9	62.5	9	62.5	6.50	3	100.0	88.09	201	4	1	00
ND 527	58.0	24.9	2	92	6	1.49	14.9	2	62.7	0.45	14.1	1	8	62.5	9	62.5	9	62.5	6.50	3	100.5	89.99	190	2	1	LG
ND 528	56.5	29.9	8	89	3	1.52	14.4	2	60.6	0.46	14.2	1	8	62.3	10	62.3	10	62.3	7.50	4	101.5	87.10	199	4	1	00
ND 529	58.0	25.1	1	87	12	1.40	14.2	5	61.8	0.42	13.8	1	5	56.0	6	56.0	6	56.0	4.50	6	100.8	88.05	212	8	1	LG
MT 2627	55.5	24.5	2	88	10	1.47	14.3	3	60.5	0.42	13.9	1	5	60.0	8	60.0	8	60.0	6.75	4	101.5	88.09	226	4	2	M65 8A 00

1/ CLEAN ORY - SUBTRACT 1 LB./BU. FOR OCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = VERY SOFT, 5 = GRITTY, 6 = WEAK, 7 = PLIABLE, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

5/ REFERENCE TO REFERENCE: 1 = VERY ELASTIC, 2 = ELASTIC, 3 = ELASTIC-PLIABLE, 4 = PLIABLE-ELASTIC, 5 = PLIABLE, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

6/ XXX-00 = 80% WHITE, XXX-01 = 70% WHITE, XXX-02 = 60% WHITE, XXX-03 = 50% WHITE, XXX-04 = 40% WHITE, XXX-05 = 30% WHITE, XXX-06 = 20% WHITE, XXX-07 = 10% WHITE, XXX-08 = 0% WHITE, XXX-09 = 0% WHITE, XXX-10 = 0% WHITE, XXX-11 = 0% WHITE, XXX-12 = 0% WHITE, XXX-13 = 0% WHITE, XXX-14 = 0% WHITE, XXX-15 = 0% WHITE, XXX-16 = 0% WHITE, XXX-17 = 0% WHITE, XXX-18 = 0% WHITE, XXX-19 = 0% WHITE, XXX-20 = 0% WHITE, XXX-21 = 0% WHITE, XXX-22 = 0% WHITE, XXX-23 = 0% WHITE, XXX-24 = 0% WHITE, XXX-25 = 0% WHITE, XXX-26 = 0% WHITE, XXX-27 = 0% WHITE, XXX-28 = 0% WHITE, XXX-29 = 0% WHITE, XXX-30 = 0% WHITE, XXX-31 = 0% WHITE, XXX-32 = 0% WHITE, XXX-33 = 0% WHITE, XXX-34 = 0% WHITE, XXX-35 = 0% WHITE, XXX-36 = 0% WHITE, XXX-37 = 0% WHITE, XXX-38 = 0% WHITE, XXX-39 = 0% WHITE, XXX-40 = 0% WHITE, XXX-41 = 0% WHITE, XXX-42 = 0% WHITE, XXX-43 = 0% WHITE, XXX-44 = 0% WHITE, XXX-45 = 0% WHITE, XXX-46 = 0% WHITE, XXX-47 = 0% WHITE, XXX-48 = 0% WHITE, XXX-49 = 0% WHITE, XXX-50 = 0% WHITE, XXX-51 = 0% WHITE, XXX-52 = 0% WHITE, XXX-53 = 0% WHITE, XXX-54 = 0% WHITE, XXX-55 = 0% WHITE, XXX-56 = 0% WHITE, XXX-57 = 0% WHITE, XXX-58 = 0% WHITE, XXX-59 = 0% WHITE, XXX-60 = 0% WHITE, XXX-61 = 0% WHITE, XXX-62 = 0% WHITE, XXX-63 = 0% WHITE, XXX-64 = 0% WHITE, XXX-65 = 0% WHITE, XXX-66 = 0% WHITE, XXX-67 = 0% WHITE, XXX-68 = 0% WHITE, XXX-69 = 0% WHITE, XXX-70 = 0% WHITE, XXX-71 = 0% WHITE, XXX-72 = 0% WHITE, XXX-73 = 0% WHITE, XXX-74 = 0% WHITE, XXX-75 = 0% WHITE, XXX-76 = 0% WHITE, XXX-77 = 0% WHITE, XXX-78 = 0% WHITE, XXX-79 = 0% WHITE, XXX-80 = 0% WHITE, XXX-81 = 0% WHITE, XXX-82 = 0% WHITE, XXX-83 = 0% WHITE, XXX-84 = 0% WHITE, XXX-85 = 0% WHITE, XXX-86 = 0% WHITE, XXX-87 = 0% WHITE, XXX-88 = 0% WHITE, XXX-89 = 0% WHITE, XXX-90 = 0% WHITE, XXX-91 = 0% WHITE, XXX-92 = 0% WHITE, XXX-93 = 0% WHITE, XXX-94 = 0% WHITE, XXX-95 = 0% WHITE, XXX-96 = 0% WHITE, XXX-97 = 0% WHITE, XXX-98 = 0% WHITE, XXX-99 = 0% WHITE, XXX-100 = 0% WHITE, XXX-101 = 0% WHITE, XXX-102 = 0% WHITE, XXX-103 = 0% WHITE, XXX-104 = 0% WHITE, XXX-105 = 0% WHITE, XXX-106 = 0% WHITE, XXX-107 = 0% WHITE, XXX-108 = 0% WHITE, XXX-109 = 0% WHITE, XXX-110 = 0% WHITE, XXX-111 = 0% WHITE, XXX-112 = 0% WHITE, XXX-113 = 0% WHITE, XXX-114 = 0% WHITE, XXX-115 = 0% WHITE, XXX-116 = 0% WHITE, XXX-117 = 0% WHITE, XXX-118 = 0% WHITE, XXX-119 = 0% WHITE, XXX-120 = 0% WHITE, XXX-121 = 0% WHITE,

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1/ CLEAN DRY - SUBTRACT 1 LB./8U. FOR PACKAGE-FREE T.W.

1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VEYVY SOFT.

1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE

XXX.50 = SLIGHTLY IRREGULAR, OPEN, XXX.70 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY IRREGULAR, XXX.99 =

TABLE 8

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KAT.	SEEDLING LG MED SM	WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. EXT.	FLR. MIN.	FLR. PRO.	MLG. CHAR.	MLG. PER.	MIX. ABS.	MIX. PAT.	MIX. TIF.	DOUGH CHAR.	CPUMB CHAR.	CPUMB GRAIN	LOAF BAKE VOL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY
BROOKINGS, SOUTH DAKOTA																					
CHRIS	51.0	21.0	0	55	45	2.11	19.7	8	57.8	0.60	17.5	1	3	66.6	7	66.6	7	66.6	7	66.6	7
FRA	50.0	19.5	1	54	43	2.22	19.4	2	58.4	0.63	18.8	1	3	69.3	8	69.3	8	69.3	8	69.3	8
JUSTIN	50.5	18.4	1	57	43	2.22	21.1	8	59.4	0.63	19.9	1	3	67.0	8	67.0	8	67.0	8	67.0	8
MAQUOK	50.5	18.2	0	55	45	2.36	20.2	8	55.3	0.63	20.0	1	3	66.3	7	66.3	7	66.3	7	66.3	7
SELKIRK	47.0	20.6	0	52	48	2.22	15.2	8	59.7	0.60	19.0	1	3	65.7	5	65.7	5	65.7	5	65.7	5
WALORON	48.0	22.4	1	60	39	2.37	20.7	3	55.5	0.71	20.5	1	8	68.2	9	68.2	9	68.2	9	68.2	9
MT 6427	50.0	18.9	1	72	27	2.36	19.4	3	53.5	0.64	18.1	1	8	65.7	8	65.7	8	65.7	8	65.7	8
MT 5433	47.5	20.4	0	57	43	2.32	21.0	8	55.6	0.66	20.6	1	7	69.1	6	69.1	6	69.1	6	69.1	6
MT 7111	50.5	20.4	0	57	43	2.31	18.9	6	57.5	0.62	21.3	1	3	67.0	7	67.0	7	67.0	7	67.0	7
MT 7031	49.4	19.2	0	68	34	2.16	18.9	6	57.5	0.60	18.4	1	3	67.0	7	67.0	7	67.0	7	67.0	7
MT 7156	51.0	20.1	0	58	42	2.18	19.5	8	57.4	0.62	19.3	1	3	66.6	7	66.6	7	66.6	7	66.6	7
ND 496-153	51.0	17.8	0	35	65	2.30	20.4	8	58.0	0.77	20.2	1	8	70.6	9	70.6	9	70.6	9	70.6	9
ND 496-158	51.5	18.1	0	41	59	2.28	20.2	8	58.4	0.76	20.0	1	8	71.2	7	71.2	7	71.2	7	71.2	7
ND 510	45.0	18.5	0	44	56	2.37	21.5	8	54.9	0.86	21.3	1	8	67.9	9	67.9	9	67.9	9	67.9	9
ND 519	51.5	18.0	0	46	54	2.18	21.4	8	53.4	0.84	20.9	1	8	62.3	2	62.3	2	62.3	2	62.3	2
ND 521	52.0	15.6	0	74	26	2.28	18.7	8	57.8	0.60	18.5	1	3	65.3	5	65.3	5	65.3	5	65.3	5
ND 522	47.0	19.3	0	66	34	2.27	18.4	8	59.0	0.63	18.2	1	3	66.2	11	66.2	11	66.2	11	66.2	11
ND 523	50.5	18.6	0	63	37	2.32	20.2	8	57.1	0.71	20.0	1	8	67.3	8	67.3	8	67.3	8	67.3	8
ND 524	50.5	18.6	0	63	37	2.32	20.2	8	57.1	0.71	20.0	1	8	67.3	8	67.3	8	67.3	8	67.3	8
ND 527	53.0	18.4	0	53	47	2.19	20.8	8	56.4	0.76	20.2	1	8	67.3	8	67.3	8	67.3	8	67.3	8
ND 528	50.0	19.4	0	63	37	2.23	19.5	8	59.4	0.64	19.3	1	4	70.0	11	70.0	11	70.0	11	70.0	11
ND 529	47.0	17.5	0	29	71	2.13	20.4	8	57.8	0.60	20.2	1	3	67.9	8	67.9	8	67.9	8	67.9	8
AI 2627	49.5	17.9	0	39	61	2.14	20.8	8	56.3	0.57	20.6	1	3	69.7	10	69.7	10	69.7	10	69.7	10
HIGHMORE, SOUTH DAKOTA																					
CHRIS	51.5	16.8	1	54	45	2.35	19.3	3	59.2	0.75	19.1	1	3	62.8	3	62.8	3	62.8	3	62.8	3
FRA	50.5	18.6	1	58	46	2.39	19.1	2	60.9	0.72	18.4	1	3	64.2	4	64.2	4	64.2	4	64.2	4
JUSTIN	50.5	18.6	1	58	46	2.39	19.1	2	60.9	0.72	18.4	1	3	64.2	4	64.2	4	64.2	4	64.2	4
MAQUOK	51.0	18.8	1	54	45	2.39	18.9	1	60.9	0.71	18.9	1	2	64.2	5	64.2	5	64.2	5	64.2	5
SELKIRK	46.5	19.9	1	58	41	2.38	18.2	4	59.4	0.69	18.7	1	2	64.2	4	64.2	4	64.2	4	64.2	4
WALORON	49.0	18.7	1	67	32	2.42	19.3	2	58.1	0.80	18.9	1	5	64.7	5	64.7	5	64.7	5	64.7	5
MT 6427	43.0	21.6	1	67	32	2.36	18.7	3	57.9	0.67	18.4	1	3	64.7	5	64.7	5	64.7	5	64.7	5
MT 6433	49.5	18.7	1	67	32	2.55	20.2	2	58.1	0.75	20.0	1	4	65.3	3	65.3	3	65.3	3	65.3	3
MT 7111	53.5	20.2	1	54	45	2.35	19.7	2	57.5	0.85	19.5	1	8	65.7	6	65.7	6	65.7	6	65.7	6
MT 7031	49.5	18.2	1	62	37	2.36	18.2	3	58.8	0.69	18.7	1	2	64.7	4	64.7	4	64.7	4	64.7	4
MT 7156	50.0	18.5	1	48	51	2.24	17.7	4	55.0	0.69	17.4	1	8	66.3	6	66.3	6	66.3	6	66.3	6
ND 496-153	52.5	18.2	1	42	57	2.38	19.2	2	58.6	0.86	19.0	1	8	70.0	5	70.0	5	70.0	5	70.0	5
ND 496-158	52.5	18.2	1	46	53	2.18	19.0	2	59.3	0.79	18.8	1	5	68.2	5	68.2	5	68.2	5	68.2	5
ND 510	46.5	16.9	1	50	49	2.49	19.7	4	54.4	0.95	19.5	1	8	64.4	4	64.4	4	64.4	4	64.4	4
ND 519	50.0	18.7	1	53	46	2.29	18.4	2	56.8	0.71	18.0	1	4	65.0	5	65.0	5	65.0	5	65.0	5
ND 521	53.5	22.5	1	72	27	2.37	17.9	3	59.1	0.64	17.6	1	2	63.5	3	63.5	3	63.5	3	63.5	3
ND 522	50.0	19.9	1	62	37	2.39	18.8	2	57.5	0.75	18.6	1	4	66.3	6	66.3	6	66.3	6	66.3	6
ND 523	49.0	20.6	1	56	43	2.41	20.1	2	57.0	0.72	18.9	1	4	66.3	5	66.3	5	66.3	5	66.3	5
ND 526	52.0	19.7	1	64	35	2.37	18.1	2	57.4	0.73	18.7	1	4	65.7	2	65.7	2	65.7	2	65.7	2
ND 527	55.0	21.6	1	70	29	2.23	18.2	2	58.1	0.76	18.6	1	4	65.7	2	65.7	2	65.7	2	65.7	2
ND 528	50.0	18.0	1	59	40	2.44	19.0	2	58.1	0.76	18.8	1	4	65.3	6	65.3	6	65.3	6	65.3	6
ND 529	49.0	16.7	1	29	70	2.21	15.4	3	59.4	0.66	19.1	1	2	64.2	7	64.2	7	64.2	7	64.2	7
MT 2627	48.5	16.6	1	39	60	2.27	15.8	3	58.5	0.65	19.6	1	2	70.0	7	70.0	7	70.0	7	70.0	7

1/ CLEAN OPY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 1% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY-UNSATISFACTORY.

9/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = CRITICALLY SOFT, 6 = VERY SOFT.

10/ REFER TO REFERENCE MIXTURES FOR NUMERICAL CURVES.

11/ XXX-00 = SOFT, XXX-01 = SLIGHTLY SOFT, XXX-02 = SLIGHTLY SOFT, XXX-03 = SLIGHTLY SOFT, XXX-04 = SLIGHTLY SOFT, XXX-05 = SLIGHTLY SOFT, XXX-06 = SLIGHTLY SOFT, XXX-07 = SLIGHTLY SOFT, XXX-08 = SLIGHTLY SOFT, XXX-09 = SLIGHTLY SOFT, XXX-10 = SLIGHTLY SOFT, XXX-11 = SLIGHTLY SOFT, XXX-12 = SLIGHTLY SOFT, XXX-13 = SLIGHTLY SOFT, XXX-14 = SLIGHTLY SOFT, XXX-15 = SLIGHTLY SOFT, XXX-16 = SLIGHTLY SOFT, XXX-17 = SLIGHTLY SOFT, XXX-18 = SLIGHTLY SOFT, XXX-19 = SLIGHTLY SOFT, XXX-20 = SLIGHTLY SOFT, XXX-21 = SLIGHTLY SOFT, XXX-22 = SLIGHTLY SOFT, XXX-23 = SLIGHTLY SOFT, XXX-24 = SLIGHTLY SOFT, XXX-25 = SLIGHTLY SOFT, XXX-26 = SLIGHTLY SOFT, XXX-27 = SLIGHTLY SOFT, XXX-28 = SLIGHTLY SOFT, XXX-29 = SLIGHTLY SOFT, XXX-30 = SLIGHTLY SOFT, XXX-31 = SLIGHTLY SOFT, XXX-32 = SLIGHTLY SOFT, XXX-33 = SLIGHTLY SOFT, XXX-34 = SLIGHTLY SOFT, XXX-35 = SLIGHTLY SOFT, XXX-36 = SLIGHTLY SOFT, XXX-37 = SLIGHTLY SOFT, XXX-38 = SLIGHTLY SOFT, XXX-39 = SLIGHTLY SOFT, XXX-40 = SLIGHTLY SOFT, XXX-41 = SLIGHTLY SOFT, XXX-42 = SLIGHTLY SOFT, XXX-43 = SLIGHTLY SOFT, XXX-44 = SLIGHTLY SOFT, XXX-45 = SLIGHTLY SOFT, XXX-46 = SLIGHTLY SOFT, XXX-47 = SLIGHTLY SOFT, XXX-48 = SLIGHTLY SOFT, XXX-49 = SLIGHTLY SOFT, XXX-50 = SLIGHTLY SOFT, XXX-51 = SLIGHTLY SOFT, XXX-52 = SLIGHTLY SOFT, XXX-53 = SLIGHTLY SOFT, XXX-54 = SLIGHTLY SOFT, XXX-55 = SLIGHTLY SOFT, XXX-56 = SLIGHTLY SOFT, XXX-57 = SLIGHTLY SOFT, XXX-58 = SLIGHTLY SOFT, XXX-59 = SLIGHTLY SOFT, XXX-60 = SLIGHTLY SOFT, XXX-61 = SLIGHTLY SOFT, XXX-62 = SLIGHTLY SOFT, XXX-63 = SLIGHTLY SOFT, XXX-64 = SLIGHTLY SOFT, XXX-65 = SLIGHTLY SOFT, XXX-66 = SLIGHTLY SOFT, XXX-67 = SLIGHTLY SOFT, XXX-68 = SLIGHTLY SOFT, XXX-69 = SLIGHTLY SOFT, XXX-70 = SLIGHTLY SOFT, XXX-71 = SLIGHTLY SOFT, XXX-72 = SLIGHTLY SOFT, XXX-73 = SLIGHTLY SOFT, XXX-74 = SLIGHTLY SOFT, XXX-75 = SLIGHTLY SOFT, XXX-76 = SLIGHTLY SOFT, XXX-77 = SLIGHTLY SOFT, XXX-78 = SLIGHTLY SOFT, XXX-79 = SLIGHTLY SOFT, XXX-80 = SLIGHTLY SOFT, XXX-81 = SLIGHTLY SOFT, XXX-82 = SLIGHTLY SOFT, XXX-83 = SLIGHTLY SOFT, XXX-84 = SLIGHTLY SOFT, XXX-85 = SLIGHTLY SOFT, XXX-86 = SLIGHTLY SOFT, XXX-87 = SLIGHTLY SOFT, XXX-88 = SLIGHTLY SOFT, XXX-89 = SLIGHTLY SOFT, XXX-90 = SLIGHTLY SOFT, XXX-91 = SLIGHTLY SOFT, XXX-92 = SLIGHTLY SOFT, XXX-93 = SLIGHTLY SOFT, XXX-94 = SLIGHTLY SOFT, XXX-95 = SLIGHTLY SOFT, XXX-96 = SLIGHTLY SOFT, XXX-97 = SLIGHTLY SOFT, XXX-98 = SLIGHTLY SOFT, XXX-99 = SLIGHTLY SOFT, XXX-100 = SLIGHTLY SOFT.

12/ XXX-00 = SOFT, XXX-01 = SLIGHTLY SOFT, XXX-02 = SLIGHTLY SOFT, XXX-03 = SLIGHTLY SOFT, XXX-04 = SLIGHTLY SOFT, XXX-05 = SLIGHTLY SOFT, XXX-06 = SLIGHTLY SOFT, XXX-07 = SLIGHTLY SOFT, XXX-08 = SLIGHTLY SOFT, XXX-09 = SLIGHTLY SOFT, XXX-10 = SLIGHTLY SOFT, XXX-11 = SLIGHTLY SOFT, XXX-12 = SLIGHTLY SOFT, XXX-13 = SLIGHTLY SOFT, XXX-14 = SLIGHTLY SOFT, XXX-15 = SLIGHTLY SOFT, XXX-16 = SLIGHTLY SOFT, XXX-17 = SLIGHTLY SOFT, XXX-18 = SLIGHTLY SOFT, XXX-19 = SLIGHTLY SOFT, XXX-20 = SLIGHTLY SOFT, XXX-21 = SLIGHTLY SOFT, XXX-22 = SLIGHTLY SOFT, XXX-23 = SLIGHTLY SOFT, XXX-24 = SLIGHTLY SOFT, XXX-25 = SLIGHTLY SOFT, XXX-26 = SLIGHTLY SOFT, XXX-27 = SLIGHTLY SOFT, XXX-28 = SLIGHTLY SOFT, XXX-29 = SLIGHTLY SOFT, XXX-30 = SLIGHTLY SOFT, XXX-31 = SLIGHTLY SOFT, XXX-32 = SLIGHTLY SOFT, XXX-33 = SLIGHTLY SOFT, XXX-34 = SLIGHTLY SOFT, XXX-35 = SLIGHTLY SOFT, XXX-36 = SLIGHTLY SOFT, XXX-37 = SLIGHTLY SOFT, XXX-38 = SLIGHTLY SOFT, XXX-39 = SLIGHTLY SOFT, XXX-40 = SLIGHTLY SOFT, XXX-41 = SLIGHTLY SOFT, XXX-42 = SLIGHTLY SOFT, XXX-43 = SLIGHTLY SOFT, XXX-44 = SLIGHTLY SOFT, XXX-45 = SLIGHTLY SOFT, XXX-46 = SLIGHTLY SOFT, XXX-47 = SLIGHTLY SOFT, XXX-48 = SLIGHTLY SOFT, XXX-49 = SLIGHTLY SOFT, XXX-50 = SLIGHTLY SOFT, XXX-51 = SLIGHTLY SOFT, XXX-52 = SLIGHTLY SOFT, XXX-53 = SLIGHTLY SOFT, XXX-54 = SLIGHTLY SOFT, XXX-55 = SLIGHTLY SOFT, XXX-56 = SLIGHTLY SOFT, XXX-57 = SLIGHTLY SOFT, XXX-58 = SLIGHTLY SOFT, XXX-59 = SLIGHTLY SOFT, XXX-60 = SLIGHTLY SOFT, XXX-61 = SLIGHTLY SOFT, XXX-62 = SLIGHTLY SOFT, XXX-63 = SLIGHTLY SOFT, XXX-64 = SLIGHTLY SOFT, XXX-65 = SLIGHTLY SOFT, XXX-66 = SLIGHTLY SOFT, XXX-67 = SLIGHTLY SOFT, XXX-68 = SLIGHTLY SOFT, XXX-69 = SLIGHTLY SOFT, XXX-70 = SLIGHTLY SOFT, XXX-71 = SLIGHTLY SOFT, XXX-72 = SLIGHTLY SOFT, XXX-73 = SLIGHTLY SOFT, XXX-74 = SLIGHTLY SOFT, XXX-75 = SLIGHTLY SOFT, XXX-76 = SLIGHTLY SOFT, XXX-77 = SLIGHTLY SOFT, XXX-78 = SLIGHTLY SOFT, XXX-79 = SLIGHTLY SOFT, XXX-80 = SLIGHTLY SOFT, XXX-81 = SLIGHTLY SOFT, XXX-82 = SLIGHTLY SOFT, XXX-83 = SLIGHTLY SOFT, XXX-84 = SLIGHTLY SOFT, XXX-85 = SLIGHTLY SOFT, XXX-86 = SLIGHTLY SOFT, XXX-87 = SLIGHTLY SOFT, XXX-88 = SLIGHTLY SOFT, XXX-89 = SLIGHTLY SOFT, XXX-90 = SLIGHTLY SOFT, XXX-91 = SLIGHTLY SOFT, XXX-92 = SLIGHTLY SOFT, XXX-93 = SLIGHTLY SOFT, XXX-94 = SLIGHTLY SOFT, XXX-95 = SLIGHTLY SOFT, XXX-96 = SLIGHTLY SOFT, XXX-97 = SLIGHTLY SOFT, XXX-98 = SLIGHTLY SOFT, XXX-99 = SLIGHTLY SOFT, XXX-100 = SLIGHTLY SOFT.

13/ XXX-00 = SOFT, XXX-01 = SLIGHTLY SOFT, XXX-02 = SLIGHTLY SOFT, XXX-03 = SLIGHTLY SOFT, XXX-04 = SLIGHTLY SOFT, XXX-05 = SLIGHTLY SOFT, XXX-06 = SLIGHTLY SOFT, XXX-07 = SLIGHTLY SOFT, XXX-08 = SLIGHTLY SOFT, XXX-09 = SLIGHTLY SOFT, XXX-10 = SLIGHTLY SOFT, XXX-11 = SLIGHTLY SOFT, XXX-12 = SLIGHTLY SOFT, XXX-13 = SLIGHTLY SOFT, XXX-14 = SLIGHTLY SOFT, XXX-15 = SLIGHTLY SOFT, XXX-16 = SLIGHTLY SOFT, XXX-17 = SLIGHTLY SOFT, XXX-18 = SLIGHTLY SOFT, XXX-19 = SLIGHTLY SOFT, XXX-20 = SLIGHTLY SOFT, XXX-21 = SLIGHTLY SOFT, XXX-22 = SLIGHTLY SOFT, XXX-23 = SLIGHTLY SOFT, XXX-24 = SLIGHTLY SOFT, XXX-25 = SLIGHTLY SOFT, XXX-26 = SLIGHTLY SOFT

VARIETY OR CSTL. NO.		1000 ANT.	KEENEL-SIZE LO. MEAS. SM.	WHT. W.	WHT. P.	KEEN. CHS.	FLY. EAT.	WING. INCH.	FLY. PRO.	MUG. CHS.	MUG. ABS.	MTX. ABS.	MI. ABS.	BAKE ASS.	MIN. TIME	DOUGH CHAP.	CRUMB CLOUP.	CRUMB GRAIN.	LOAF BAKE VOL. EVAL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY	
NEARBY, SOUTH DAKOTA																							
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW	LG
57-0	15-7	1-70	19-7	6	61-9	3-49	19-5	1	2	64-4	4	64-4	4	64-4	4-00	3	101-7	88-39	204	2	1	KW</	

[illegible]

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1+4 MOISTURE BASIS.
2/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.
3/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.
4/ REFER TO REFERENCE MICROGRAMS FOR NUMERICAL CURVE PATTERNS. (1 = VERY WEAK --- 11 = VERY STRONG)
5/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.
6/ XXX-9 = BRIGHT WHITE, XXX-8 = WHITE, XXX-7 = SLIGHTLY CREAMY, XXX-6 = BRIGHT CREAMY, XXX-5 = CREAMY, XXX-4 = VERY CREAMY, XXX-3 = GRAY, XXX-2 = DULL GRAY, XXX-1 = VERY GRAY.
7/ XXX-00 = CLOSELY, XXX-01 = THICK WALL OR HARSH, XXX-03 = CLOSE, XXX-05 = OPEN, IRREGULAR, XXX-06 = OPEN, SLIGHTLY IRREGULAR, XXX-07 = IRREGULAR, XXX-09 = OPEN, XXX-10 = IRREGULAR, XXX-30 = SLIGHTLY OPEN, IRREGULAR,
8/ XXX-50 = SLIGHTLY IRREGULAR, OPEN, XXX-70 = SLIGHTLY OPEN, XXX-90 = SLIGHTLY IRREGULAR, XXX-99 = NORMAL.
9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 12

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KW.	KERNEL SIZE L/1000	WHT. MIN.	WHT. PRO.	KERN. CHAP.	FLR. EXT.	MIN. 3 65EX.	FLG. PRO.	MLG. CHAP.	MLG. PER.	MIX. AUS.	MIX. PAT.	BASE AGE	MIX. TIME	DOUGH CHAR.	COLOR	CRUMB	CRUMB GRAIN	LOAF BASE VOL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK, 2 = WEAK, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-WEAK, 6 = WEAK-PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = VERY WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAO, 30 = DEAO.

6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-WEAK, 6 = WEAK-PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = VERY WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAO, 30 = DEAO.

7/ XXX = 80% WHITE, XXXX = 70% WHITE, XXXXX = 60% WHITE, XXXXXX = 50% WHITE, XXXXXX = 40% WHITE, XXXXXX = 30% WHITE, XXXXXX = 20% WHITE, XXXXXX = 10% WHITE, XXXXXX = 0% WHITE.

8/ XXX = 80% WHITE, XXXX = 70% WHITE, XXXXX = 60% WHITE, XXXXXX = 50% WHITE, XXXXXX = 40% WHITE, XXXXXX = 30% WHITE, XXXXXX = 20% WHITE, XXXXXX = 10% WHITE, XXXXXX = 0% WHITE.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 13

QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.W. #/80.	1000 KWT.	KERNEL SIZE LG MED SM	WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. MIN. 2	FLR. EXT. 2	MIN. 2	FLR. MIN. 3	FLR. PRO. 3	MLG. PER. 3	MIX. ABS. 3	MIX. ABS. 5	BAKE ABS. 2	MIX. TIME 6	DOUGH CHAR. 6	CRUMB COLOR 7	CRUMB GRAIN 8	LOAF BAKE VOL. 9	MINOR DEFICIENCY 3/ 9/	MAJOR DEFICIENCY		
AREA AVERAGES OF CHRIS. JUSTIN AND SELKIRK																								
SOUTHEAST	53.8	23.6	9	66	25	2.05	17.4	6	60.8	0.55	17.0	1	8	63.2	5	63.2	4.33	5	101.4	87.02	185	2	1	KW LG SM
NORTHEAST	59.9	31.1	35	63	2	1.59	15.7	3	61.2	0.41	15.4	1	2	63.6	4	63.6	4.05	4	101.0	89.10	186	2	4	TW WM M65
WESTERN	58.5	27.5	21	71	8	1.69	15.8	2	62.0	0.42	15.5	1	2	63.0	4	63.0	3.59	5	100.8	89.39	183	2	4	
CROP YEAR AVERAGE																								
1969 AVERAGE	61.6	31.1	37	60	3	1.75	15.6	2	56.0	0.44	15.1	1	8	65.6	5	65.6	3.75	4	100.7	88.04	199	2	1	EX
1970 AVERAGE	59.9	27.0	22	72	6	1.71	16.1	3	59.7	0.47	15.6	1	4	64.1	4	64.1	3.75	5	100.5	88.28	188	2	3	
1971 AVERAGE	60.4	32.0	32	65	3	1.64	15.2	2	62.3	0.45	14.9	1	2	62.6	3	62.6	3.16	4	100.8	90.87	184	2	4	
1972 AVERAGE	60.4	34.2	37	50	3	1.61	14.3	4	64.0	0.42	15.1	1	1	63.3	4	63.3	3.52	3	100.3	87.58	182	2	3	8A
1973 AVERAGE	59.5	32.3	34	62	4	1.63	15.3	2	62.4	0.44	14.8	1	2	63.4	5	63.4	5.25	4	100.4	87.26	191	2	4	
1974 AVERAGE	57.9	27.9	23	67	10	1.74	16.1	4	61.4	0.45	15.8	1	3	63.3	4	63.3	3.95	5	101.0	88.84	184	2	4	TW KW SM
1969-73 AVG	60.4	31.3	34	62	4	1.67	15.3	2	60.9	0.45	14.8	1	3	63.4	4	63.4	3.88	4	100.5	88.43	189	2	4	
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5/ REFER TO REFERENCE MIXTURES FOR NUMERICAL CURVE PATTERNS.

6/ 1 = VERY WEAK, 2 = WEAK, 3 = PLIABLE, 4 = PLIABLE-ELASTIC, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

7/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

8/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

9/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

10/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

11/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

12/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

13/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

14/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

15/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

16/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

17/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

18/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

19/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

20/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

21/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

22/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

23/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

24/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

25/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

26/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

27/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

28/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

29/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

30/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

31/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

32/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

33/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

34/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

35/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

36/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

37/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

38/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

39/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

40/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

41/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

42/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

43/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

44/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

45/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

46/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

47/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

48/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

49/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

50/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

51/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

52/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

53/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

54/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

55/ 1 = BUCKY, 2 = BUCKY, 3 = BUCKY, 4 = BUCKY, 5 = BUCKY, 6 = BUCKY, 7 = BUCKY, 8 = BUCKY, 9 = BUCKY, 10 = BUCKY, 20 = SLIGHTLY BUCKY, 30 = BUCKY.

TABLE 15

QUALITY DATA ON FIELD PLOT NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.	1300 KAT.	DEVELOPMENT LG 4ED 54	WHT. MT.	WHT. PRO.	KERN. CHAS.	FLR. EXT.	FLR. MIN.	FLR. PRO.	MLG. CHAS.	%G. PER.	MIX. RST.	MIX. RST.	HANE RST.	MIX. TIME	DOUGH CHAR.	CRUMB CHAR.	CRUMB CHAR.	CRUMB CHAR.	CRUMB CHAR.	LOAF VOL.	LOAF BAKE VOL.	REN. BAKE VOL.	MAJOR DEFICIENCY					
DICKINSON, NORTH DAKOTA																													
BONANZA	60.3	25.0	4	90	0	1.64	15.3	5	67.4	0.33	14.8	1	2	63.5	7	5.75	3	101.0	91.99	77.3	5	2	4P	BA	MT	LV	LG		
BONITA 273	60.3	25.0	11	95	0	1.57	14.3	8	67.4	0.33	14.1	1	2	62.3	7	6.00	2	102.0	90.30	425	8	1	MT	DU		WP	RA		
CHIPS	59.3	23.0	10	86	4	1.65	16.3	2	67.4	0.33	13.8	1	2	64.7	4	3.50	3	103.6	87.59	380	2	4							
ELLIP	59.4	25.2	34	84	2	1.69	16.3	2	66.2	0.43	10.1	2	3	65.7	4	3.25	3	99.0	88.09	1005	2	4					WP	RA	
ERA	59.7	23.1	16	76	3	1.65	13.9	6	70.0	0.42	13.5	1	4	62.5	4	6.00	3	101.0	86.55	723	5	1							
FORNIA	60.4	45.1	20	77	3	1.63	15.9	3	69.8	0.40	15.2	1	3	64.2	4	3.50	3	100.7	78.67	940	2	4							
GLENEA	57.5	24.2	20	76	4	1.71	16.4	3	67.5	0.43	13.9	1	3	67.6	11	6.75	2	98.5	85.09	975	8	1	TM	DU			MoS	MT	
LARK	61.2	24.2	4	91	2	1.65	14.0	3	69.3	0.39	13.6	2	3	61.0	7	6.75	2	100.0	84.70	950	8	1	TM	DU			LG	WP	RA
NAPAYO	60.2	23.9	3	82	5	1.73	15.8	3	67.2	0.43	13.2	1	5	64.2	3	3.50	3	100.5	83.67	840	2	3					LG	MoS	
NORAYA	58.3	23.0	3	89	3	1.64	13.1	7	63.3	0.43	14.4	2	4	65.3	5	3.75	3	100.0	85.09	915	2	1	SM	WP			LG	EX	MoS
NORSTA	59.3	23.9	3	92	2	1.65	16.1	3	67.8	0.41	15.8	1	3	67.3	5	3.50	3	100.7	85.05	760	2	4					LG		
OLAF	60.1	25.3	13	84	3	1.57	16.2	2	65.3	0.33	15.3	1	3	67.6	6	4.75	2	101.5	86.95	1000	4	3	DU				MoS	MT	DU
PRITIP	57.3	25.3	7	89	4	1.74	15.4	5	65.5	0.45	14.9	1	8	64.2	6	5.25	3	100.5	87.49	940	4	1	TM	LG	WP	MT			
TRIGA	61.1	26.5	4	90	9	1.73	15.4	5	69.5	0.42	15.0	1	4	65.3	11	1.50	1	104.0	85.79	905	8	1					MoS	MT	DU
	58.9	23.0	13	65	2	1.63	17.0	2	67.5	0.46	16.1	1	8	64.7	4	3.75	3	101.0	86.09	860	2	1							
WALDWIN	54.2	27.9	21	76	3	1.64	16.8	2	66.1	0.43	13.1	1	5	62.7	4	3.50	3	100.7	87.10	1030	2	3					MoS		
WALDWIN	54.2	22.2	13	89	3	1.66	16.0	4	69.4	0.43	13.6	1	4	63.5	5	5.00	3	100.0	82.99	950	2	3	SM				LG	MoS	
WALDWIN	58.5	24.4	10	85	5	1.70	15.5	4	66.0	0.45	15.0	1	8	63.8	10	8.00	2	100.5	90.30	900	8	1	RA	DU			MoS	MT	
WALDWIN	62.6	30.4	39	59	2	1.62	16.4	2	67.9	0.39	15.5	1	2	63.2	4	3.25	3	101.7	85.09	895	5	3					MoS	MT	
WALDWIN	61.0	25.3	6	90	4	1.66	16.2	3	69.7	0.42	15.7	1	4	63.5	6	5.00	3	102.0	90.30	1005	4	2	LG	MoS			MoS	MT	
WALDWIN	61.3	26.5	8	89	3	1.72	14.8	5	67.9	0.42	14.4	1	4	64.2	4	3.00	4	101.0	92.99	915	7	1	WP	MoS	DU		MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3	26.4	18	75	3	1.74	16.7	2	66.3	0.44	16.0	1	8	63.5	4	3.50	3	101.5	85.99	915	4	1	RA				MoS	MT	
WALDWIN	59.3																												

TABLE 16

QUALITY DATA ON FIELD PLOT NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.M. #/BU.	1973 KWT.	DEESEL SIZE L3	G.	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
WILLISTON, NORTH DAKOTA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

QUALITY DATA ON SAWFLY YIELD NURSERY SAMPLES

1/ CLEAN DRY - SUBTRACT 1 LB./80. FOR PACKAGE-FREE T.W.

3/ 1 = VERY SATISFACTORY

5/ REFER TO REFERENCE N
6/ 1 = HIGH, 2 = VERY

8/ XXX.00 = 505GY, XXX.

9/ I = NO PROMISE, 2 =

TABLE 18

QUALITY DATA ON SAWFLY YIELD NURSERY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KWT.	SEEDLING LG MED SM	WHT. MIN.	WHT. PRO.	WHT. KERN.	FLR. EXT.	FLR. MIN.	FLR. PRO.	MLG. CHAR.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE ABS.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMB GRAIN	LOAF VOL.	JAKE EVAL.	GEN.	MINOR DEFICIENCY	MAJOR DEFICIENCY	
WILLISTON, NORTH DAKOTA --- INTERNATIONAL SAWFLY																								
CHINOOK	53.5	22.2	0	85	15	1.60	17.7	8	61.8	0.45	17.3	1	2	62.5	3	4.00	4	101.5	88.09	170	3	1	LV	LG
CHRIS	56.0	22.3	8	78	13	2.03	16.6	2	55.8	0.55	16.4	3	3	68.2	4	3.25	5	101.7	51.99	191	2	4	M65	
FORTUNA	55.5	25.6	17	72	11	2.12	17.2	2	54.0	0.60	17.2	2	4	68.5	4	2.75	5	102.0	85.99	212	3	3	M65	
RESCUE	57.0	22.8	3	81	16	1.76	15.7	5	58.4	0.51	15.3	2	1	63.5	4	3.00	3	102.6	85.05	202	4	2	OD	
THATCHER	56.0	21.4	4	82	14	2.01	16.0	2	53.4	0.57	15.4	2	2	64.2	3	3.50	4	102.0	87.99	180	8	1	MP	BA
TIOGA	59.3	21.6	18	73	9	2.09	16.8	2	54.9	0.54	16.5	3	3	67.6	5	3.00	4	101.7	87.99	199	5	3	LG	
CN 774315	53.0	23.5	13	73	25	2.37	17.5	8	58.3	0.73	17.3	2	8	67.9	4	3.70	3	60.2	83.05	198	3	3	LV	SM
MT 7111	56.5	26.9	13	71	18	2.15	17.0	3	55.4	0.84	16.5	3	8	67.0	6	4.00	4	102.6	87.05	206	2	1	TW	MT
MT 7339	56.0	24.3	6	72	16	2.05	16.7	2	51.6	0.59	16.5	3	8	67.6	5	4.00	4	102.0	86.99	204	2	1	MT	
MT 7340	55.5	24.0	20	67	13	2.08	17.4	2	51.6	0.63	17.1	3	8	67.3	6	5.00	4	101.5	87.10	212	3	1	MT	
MT 7341	56.5	30.4	29	66	5	2.16	17.9	2	55.4	0.65	17.7	3	8	69.1	6	4.00	4	101.5	86.09	228	2	1	WM	M65
MT 7343	54.5	30.7	27	63	10	2.09	17.0	3	50.5	0.64	16.8	3	8	70.0	6	3.25	5	100.4	85.99	200	2	1	TW	
MT 7344	55.0	28.7	26	67	7	2.02	18.6	2	52.3	0.66	18.4	3	8	71.5	5	3.50	5	100.4	84.05	210	2	1	WM	
S 6851	55.0	22.4	8	77	15	2.26	17.6	4	51.2	0.66	17.2	3	8	67.6	6	4.75	4	100.5	86.99	211	3	1	WM	MT
S 7003	53.0	25.4	17	72	11	2.12	17.4	2	52.6	0.60	16.8	3	7	67.0	5	3.50	5	100.5	86.09	202	3	2	EX	
S 7003	54.0	27.9	24	67	9	2.07	17.3	3	54.4	0.62	17.1	2	6	67.9	6	3.75	5	98.0	87.99	212	3	2	TW	M65
S 7019	54.0	28.2	25	65	10	2.12	17.0	3	56.9	0.63	16.8	3	8	67.4	5	3.75	5	103.0	90.99	196	2	1	TW	
S 7064	55.0	28.1	26	68	9	2.07	17.1	3	54.4	0.63	16.8	3	8	70.0	5	3.75	4	101.5	87.09	213	2	1	TW	M65
S 7065	55.5	28.6	31	60	9	2.02	17.4	2	49.5	0.57	17.3	2	8	70.0	5	3.75	4	101.5	87.09	213	2	1	TW	
S 7068	56.0	29.8	17	75	8	2.51	17.4	8	56.5	0.89	16.3	2	8	67.9	5	3.75	4	101.5	87.10	216	4	1	COL	
SU 6	52.5	26.5	15	75	10	2.14	17.4	3	54.6	0.66	16.8	2	8	67.9	4	3.25	6	101.4	90.99	193	4	1	OD	
SU 7	56.0	25.7	22	69	9	2.02	17.1	2	53.7	0.55	16.5	2	4	67.0	4	3.00	6	101.5	90.99	182	4	2	EX	
FARGO, NORTH DAKOTA --- INTERNATIONAL SAWFLY																								
CHINOOK	56.5	24.4	9	78	13	2.03	16.6	2	55.8	0.55	16.4	3	3	68.2	4	3.25	5	101.7	51.99	191	2	4	M65	
CHRIS	56.0	22.3	8	78	14	2.13	17.4	3	55.4	0.60	17.2	2	4	68.5	4	2.75	5	102.0	85.99	212	3	3	M65	
FORTUNA	55.5	25.6	17	72	11	2.12	17.2	2	54.0	0.62	16.9	3	6	67.9	4	3.00	3	102.6	85.05	202	4	2	OD	
RESCUE	57.0	22.8	3	81	16	1.76	15.7	5	58.4	0.51	15.3	2	1	63.5	4	3.50	4	102.0	87.99	180	8	1	MP	BA
THATCHER	56.0	21.4	4	82	14	2.01	16.0	2	53.4	0.57	15.4	2	2	64.2	3	3.00	5	101.7	87.99	199	5	3	LG	
TIOGA	59.3	21.6	18	73	9	2.09	16.8	2	54.9	0.54	16.5	3	3	67.6	5	3.00	4	100.7	88.99	179	3	3	LV	
CN 774315	53.0	23.5	13	73	25	2.37	17.5	8	58.3	0.73	17.3	2	8	67.9	4	3.70	3	60.2	83.05	198	3	3	LV	SM
MT 7111	56.5	26.9	13	71	18	2.15	17.0	3	55.4	0.84	16.5	3	8	67.0	6	4.00	4	102.6	87.05	206	2	1	TW	MT
MT 7339	56.0	24.3	6	72	16	2.05	16.7	2	51.6	0.59	16.5	3	8	67.6	5	4.00	4	102.0	86.99	204	2	1	MT	
MT 7340	55.5	24.0	20	67	13	2.08	17.4	2	51.6	0.63	17.1	3	8	67.3	6	5.00	4	101.5	87.10	212	3	1	MT	
MT 7341	56.5	30.4	29	66	5	2.16	17.9	2	55.4	0.65	17.7	3	8	69.1	6	4.00	4	101.5	86.09	228	2	1	WM	M65
MT 7343	54.5	30.7	27	63	10	2.09	17.0	3	50.5	0.64	16.8	3	8	70.0	6	3.25	5	100.4	85.99	200	2	1	TW	
MT 7344	55.0	28.7	26	67	7	2.02	18.6	2	52.3	0.66	18.4	3	8	71.5	5	3.50	5	100.4	84.05	210	2	1	WM	
S 6851	55.0	22.4	8	77	15	2.26	17.6	4	51.2	0.66	17.2	3	8	67.6	6	4.75	4	100.5	86.99	211	3	1	WM	MT
S 7003	53.0	25.4	17	72	11	2.12	17.4	2	52.6	0.60	16.8	3	7	67.0	5	3.50	5	100.5	86.09	202	3	2	EX	
S 7003	54.0	27.9	24	67	9	2.07	17.3	3	54.4	0.62	17.1	2	6	67.9	6	3.75	5	98.0	87.99	212	3	2	TW	M65
S 7019	54.0	28.2	25	65	10	2.12	17.0	3	56.9	0.63	16.8	3	8	67.4	5	3.75	5	103.0	90.99	196	2	1	TW	
S 7064	55.0	28.1	26	68	9	2.07	17.1	3	54.4	0.63	16.8	3	8	70.0	5	3.75	4	101.5	87.09	213	2	1	TW	M65
S 7065	55.5	28.6	31	60	9	2.02	17.4	2	49.5	0.57	17.3	2	8	70.0	5	3.75	4	101.5	87.09	213	2	1	TW	
S 7068	56.0	29.8	17	75	8	2.51	17.4	8	56.5	0.89	16.3	2	8	67.9	5	3.75	4	101.5	87.10	216	4	1	COL	
SU 6	52.5	26.5	15	75	10	2.14	17.4	3	54.6	0.66	16.8	2	8	67.9	4	3.25	6	101.4	90.99	193	4	1	OD	
SU 7	56.0	25.7	22	69	9	2.02	17.1	2	53.7	0.55	16.5	2	4	67.0	4	3.00	6	101.5	90.99	182	4	2	EX	
CLEAN ORY --- SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.																								

1/ CLEAN ORY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = QUESTIONABLE-UNSATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

9/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = QUESTIONABLE-UNSATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

7/ XXX.9 = 88% WHITE, XXX.8 = WHITE, XXX.7 = SLIGHTLY CREAMY, XXX.6 = 98%HT CREAMY, XXX.5 = CREAMY, XXX.4 = VERY CREAMY, XXX.3 = GRAY, XXX.2 = DULL GRAY, XXX.1 = VERY GRAY.

8/ XXX.00 = SGGY, XXX.01 = THICK WALL OR HARSH, XXX.03 = CLOSE, XXX.05 = OPEN, IRREGULAR, XXX.06 = OPEN, SLIGHTLY IRREGULAR, XXX.07 = IRREGULAR, XXX.09 = OPEN, XXX.10 = VERY GRAY, XXX.1 = VERY GRAY.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

Table 19

QUALITY DATA ON SAWFLY YIELD NURSERY SAMPLES

1974 CR3P

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KAT.	SEEDL-SIZE LG MED SM	WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. EXT.	FLR. MIN-J	FLR. PRO.	MLG. PER.	MLG. CHAR.	MIX. ABS.	MIX. PAT.	BAKE ABS.	MIX. ABS.	MIX. PAT.	DOUGH CHAR.	CRUMB GRAIN	LOAF VOL.	LOAF WEIGHT	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY		
STONEY, MONTANA -- INTERNATIONAL SAWFLY																									
CHINOOK	57.0	22.8	1	1.87	16.9	3	61.1	0.54	16.4	1	2	04.5	3	63.5	2.75	6	100.5	90.70	90.70	171	4	3	MT	OU	
CHRIS	57.0	22.8	1	1.89	17.2	3	60.6	0.54	16.8	1	2	04.5	3	63.5	2.75	6	100.4	91.39	91.39	171	4	3	KW	MT	
FORTUNA	57.5	27.6	4	1.78	16.2	3	61.6	0.55	15.6	1	2	04.6	3	61.6	2.75	5	102.0	91.99	91.99	169	3	4	MT	OU	
RESCUE	56.0	19.4	0	1.13	2.00	16.8	8	61.5	0.55	16.3	1	3	04.2	4	64.2	4.00	3	102.0	89.79	89.79	146	5	1	KW	MT
THATCHER	56.0	19.5	1	1.99	17.2	3	60.2	0.61	16.6	1	5	04.3	2	60.3	2.25	6	100.5	90.99	90.99	173	4	2	KW	MT	
TIOGA	55.5	24.4	1	1.94	17.3	3	60.6	0.52	16.8	0	2	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7341	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7342	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7343	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7344	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7345	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7346	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7347	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7348	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7349	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7350	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7351	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7352	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7353	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7354	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7355	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7356	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7357	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7358	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7359	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7360	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7361	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7362	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7363	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7364	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7365	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7366	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7367	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7368	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7369	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7370	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7371	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7372	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7373	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7374	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7375	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7376	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7377	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7378	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7379	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7380	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7381	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7382	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7383	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7384	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7385	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1	04.3	50	64.2	4.75	4	70.3	87.99	87.99	173	8	1	OU	CUL	
MT 7386	57.0	20.3	0	1.77	17.4	8	62.6	0.58	16.9	1	1														

TABLE 20

QUALITY DATA OF SAMPLE NURSEPY SAMPLES

1974 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KWT.	KERNEL SIZE LG WFO SM	WHT. MIN.	WHT. PPO.	KERN. CHAR.	FLD. EXT.	FLD. MIN.Ø	FLR. PPO.	MLG. CHAR.	MLG. PPO.	MIX. ABS.	BAKE TIME	MIX. TIME	DOUGH CHAR.	CRUMBR COLOR	CRUMB GAIN	LOAF BAKE VOL.	BAKE EVAL.	GEN. EVAL.	MAJOR DEFICIENCY	
AVERAGE OF QUALITY DATA																						
CHINOOK	58.6	25.5	6	86	3	1.61	16.1	2	61.1	0.46	15.7	1	64.2	4	3.41	5	101.1	90.09	183	4	3	00
CHIPS	57.1	22.0	4	82	14	1.63	16.3	3	61.5	0.46	16.0	1	63.2	4	3.45	4	101.7	89.54	191	2	4	KW
FORINA	57.8	29.6	17	78	5	1.61	16.1	1	60.9	0.48	15.7	1	63.7	4	3.37	4	102.1	87.65	192	2	4	LG
RESUE	57.8	22.8	2	84	14	1.56	15.7	4	60.9	0.45	15.3	1	62.9	5	5.87	3	102.8	87.03	197	5	3	KW MT 00
THATCHER	56.8	22.2	3	84	13	1.61	15.9	1	61.4	0.47	15.5	1	61.9	4	3.29	4	101.5	87.63	193	4	3	KW LG 8A
TIOGA	57.2	26.8	9	85	6	1.63	16.5	2	60.3	0.45	16.1	1	64.4	4	3.58	4	95.9	86.46	188	2	4	COL
CN 774315	56.6	23.4	2	83	15	1.68	16.2	4	61.3	0.49	15.9	1	64.4	5	5.04	3	94.5	89.68	205	4	3	LG
MT 711	58.2	25.9	5	82	13	1.65	16.2	3	61.2	0.51	15.8	1	64.1	8	7.66	3	100.8	86.56	208	8	1	M65 MT
MT 7349	58.7	25.3	4	84	12	1.48	15.0	5	60.0	0.43	14.8	1	63.2	6	5.29	4	101.2	86.20	198	2	4	LG WP
MT 7340	57.6	27.2	10	81	9	1.60	16.0	2	59.8	0.48	15.6	1	62.4	9	5.00	4	101.2	85.55	201	8	1	8A
MT 7341	57.8	31.6	20	76	4	1.54	15.9	2	61.5	0.46	15.5	1	63.5	6	5.79	4	101.7	86.90	205	3	4	MT
MT 7343	57.4	30.6	23	70	7	1.52	15.8	2	60.3	0.44	15.5	1	65.0	5	4.25	4	101.4	87.05	190	2	4	TM
MT 7344	55.9	27.9	15	77	8	1.56	17.1	3	59.7	0.48	16.7	2	67.0	6	4.79	4	100.8	86.54	207	2	4	M65
MT 7348	57.8	26.3	14	79	7	1.69	16.6	2	59.5	0.49	16.1	2	64.0	6	5.45	4	100.5	85.93	202	2	3	8A
C 6851	59.0	28.0	14	81	5	1.54	15.9	2	60.8	0.45	15.3	1	61.9	5	4.70	4	100.8	86.39	198	4	3	
C 7003	56.2	27.8	11	82	7	1.56	15.9	2	62.3	0.47	15.5	1	63.1	6	5.08	4	99.8	87.52	208	2	4	
C 7019	56.5	30.9	21	74	5	1.61	16.2	2	59.3	0.46	15.8	2	65.8	4	6.58	4	101.1	88.37	199	2	4	
C 7064	57.7	28.5	11	80	9	1.47	16.0	2	59.6	0.42	15.7	1	66.9	6	4.58	4	101.3	88.21	201	2	4	
C 7065	57.3	28.1	13	78	9	1.54	16.3	2	57.7	0.44	16.0	2	64.6	5	6.48	4	101.5	88.39	195	2	3	EX
C 7068	57.3	26.1	12	82	6	1.71	16.6	2	62.1	0.55	16.0	1	63.9	6	5.04	3	96.6	86.08	199	4	1	M65
CU 6	53.8	27.5	14	78	8	1.58	16.0	3	62.2	0.48	15.5	1	63.5	3	3.70	5	101.2	87.02	188	4	3	00
CU 7	55.8	25.1	11	82	7	1.55	15.8	3	60.4	0.44	15.5	1	61.9	4	3.83	5	101.4	88.69	182	6	2	TM 8A 00
1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOP DROCKAGE-FREE T.W.																						
2/ 1/2 TYPE RASTERY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.																						
3/ 1 = VERY PLUMP, 2 = NORMAL, 3 = CON. NORMAL, 4 = CON. NORMAL, 5 = GRITTY, 6 = V.P. SET																						
4/ 1 = NORMAL, 2 = V.P. SET, 3 = CON. NORMAL, 4 = CON. NORMAL, 5 = GRITTY, 6 = V.P. SET																						
5/ DEFER TO REFERENCE MIXTURES FOP NUMERICAL CURVE PATTERNS, 11 = VERY WEAK, 12 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-P																						
6/ 1 = RUFFY, 2 = VERY PLASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-P																						
7/ XXX.9 = BRIGHT WHITE, XXX.8 = WHITE, XXX.7 = CREAMY, XXX.6 = BRIGHT CREAMY, XXX.5 = CREAMY, XXX.4 = V.P. CREAMY, XXX.3 = GRAY, XXX.2 = DULL GRAY, XXX.1 = VERY GRAY.																						
8/ XXX.0 = 5750V, XXX.01 = THICK WALL OP HATCH, XXX.03 = CLOS, XXX.05 = OPEN, IRREGULAR, XXX.06 = OPEN-SLIGHTLY IRREGULAR, XXX.07 = IRREGULAR-OPEN, XXX.09 = OPEN, XXX.10 = SLIGHTLY OPEN, IRREGULAR.																						
9/ XXX.50 = SLIGHTLY IRREGULAR-OPEN, XXX.70 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY IRREGULAR, XXX.99 = NORMAL.																						
10/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.																						

1/ CLEAN DOY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 1/2 MIXTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

5/ REFER TO REFERENCE MIXINGMANS FOR NUMERICAL CURVE PATTERNS. (1 = VERY WEAK --- 11 = VERY STRONG)

6/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

7/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

8/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

10/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

11/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

12/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

13/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

14/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

15/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

16/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

17/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

18/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

19/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

20/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

21/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

22/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

23/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

24/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

25/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

26/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

27/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

28/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

29/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

30/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

31/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

32/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

33/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

34/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

35/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

36/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

37/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

38/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

39/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

40/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

41/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

42/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

43/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

44/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

45/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

46/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

47/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

48/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

49/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

50/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

51/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

52/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

53/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

54/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

55/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

56/ XXX-90 = 90% WHITE, XXX-80 = 80% WHITE, XXX-70 = 70% WHITE, XXX-60 = 60% WHITE, XXX-50 = 50% WHITE, XXX-40 = 40% WHITE, XXX-30 = 30% WHITE, XXX-20 = 20% WHITE, XXX-10 = 10% WHITE, XXX-00 = 0% WHITE.

57

TABLE 21

QUALITY DATA ON SAWFLY YIELD NURSERY SAMPLES

1974 CROP

VARIETY OF SEL. NO.	T.W. #/50.	1000 KAT.	KEENEL-SIZE			WHT. MT.	KERN. PRO. CHAR.	FLR. MIN. 3 EXT. 65 SE.	FLR. MLG PRO. CHAR.	MLG. PER.	MIX. ABS. PAT.	BAKE ABS.	MIX. TIME	OUGH CHAR.	COLOR	CRUMB GRAIN	LOAF BAKE VOL. EVAL.	GEN.	MINOR DEFICIENCY	MAJOR DEFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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MILLISTON, NORTH DAKOTA -- SECONDARY SAWFLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
CHINOOK	54.0	22.4	1	88	11	1.60	17.8	3	64.4	0.44	17.0	1	2	64.4	5	64.4	5	3	101.7	85.05	174	5	3	LG	LG	SM	WP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

1/ CLEAN DRY -- SUBTRACT 1 LB./BU. FOR DUCKAGE-FREE T.W.

2/ 1% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = QUESTIONABLE-QUESTIONABLE, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRAY, 6 = VERY GRAY, 7 = VERY GRAY, 8 = VERY GRAY, 9 = VERY GRAY.

5/ PREFER TO REFERENCE MICROGRAPHS FOR BUNTING, 6 = BUNTING, 7 = BUNTING, 8 = BUNTING, 9 = BUNTING.

6/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

7/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

8/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

9/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

10/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

11/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

12/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

13/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

14/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

15/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

16/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

17/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

18/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

19/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

20/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

21/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

22/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

23/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

24/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

25/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

26/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

27/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

28/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

29/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

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31/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

32/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

33/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

34/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

35/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

36/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

37/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

38/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

39/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

40/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

41/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

42/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

43/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

44/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

45/ 1 = DUCKY, 2 = DUCKY, 3 = DUCKY, 4 = DUCKY, 5 = DUCKY, 6 = DUCKY, 7 = DUCKY, 8 = DUCKY, 9 = DUCKY.

TABLE 1

QUALITY DATA OF UNIFORM REGIONAL NURSERY BLENDS

1975 CROOP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KWT.	KERNEL SIZE		WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. EXT.	FLR. MIN.	FLR. PRO.	MLG. PER.	MLG. ABS.	MIX. PAT.	BAKE ABS.	MIX. TIME	DOUGH CHAR.	GRUMB COLOR	CRUMB GRAIN	LOAF BAKE VOL.	GEN.	MINOR DEFICIENCY		MAJOR DEFICIENCY	
			LG	SM																	CC	CC		
SOUTHEASTERN REGION																								
BORAH	55.9	23.5	7	76	17	1.81	14.3	7	70.6	0.42	13.4	1	63.8	4	65.2	3.75	3	102.5	88.10	980	4	3	KW 8A	LG WP
CHRIS	57.8	23.0	11	70	19	1.87	15.9	3	66.4	0.46	13.5	1	64.7	4	66.5	3.25	3	100.0	89.99	995	2	4	KW LG	WP 8A
ERA	59.0	25.7	21	59	20	1.83	13.5	8	69.0	0.46	13.1	1	61.9	4	63.3	3.25	3	100.8	90.99	950	6	1	8A	WP
JUSTIN	57.3	28.0	29	59	12	2.00	17.2	2	67.0	0.44	16.1	1	65.7	4	67.7	3.25	3	101.0	87.09	985	2	4	LG 8A	WP
MARQUIS	56.7	25.0	14	69	17	1.95	14.5	6	66.2	0.47	14.0	1	62.5	3	64.3	3.50	3	101.0	88.10	950	4	3	LG 8A	WP
SELKIRK	55.2	27.6	20	66	14	1.91	15.0	5	69.1	0.45	14.6	1	62.8	3	64.7	3.25	3	100.0	90.99	915	5	3	TW WP 8A	
WALDRON	56.9	27.2	26	60	14	1.96	15.4	3	67.9	0.46	14.9	1	63.8	4	65.2	4.00	3	102.0	90.99	985	4	3	8A	
MUNDAZET	59.0	27.9	27	60	13	1.91	14.9	5	66.9	0.44	14.1	1	64.2	5	66.0	4.50	3	102.5	88.09	1005	2	4	WP	
MUNDAZET	58.3	31.3	25	62	13	1.78	14.4	5	67.9	0.47	13.5	1	65.0	5	66.8	4.25	2	102.8	89.99	975	4	3	00	WP
MUNDAZET	57.1	28.3	25	60	15	1.73	14.5	5	65.0	0.49	13.8	2	63.2	3	65.2	3.00	4	100.0	89.99	910	6	1	M65 8A 00	WP
MUNDAZET	57.6	26.3	24	61	15	1.79	14.9	4	69.2	0.44	14.3	1	63.5	4	65.3	3.75	3	101.8	89.10	980	2	4	WP	
MUNDAZET	59.5	32.8	43	50	7	1.80	15.4	6	67.7	0.52	14.5	2	65.7	4	67.5	4.00	3	101.9	84.07	1035	2	4	LG WP	M65 8A
MUNDAZET	56.8	26.4	13	66	21	1.85	14.6	6	69.7	0.44	14.1	1	60.3	3	61.9	3.50	3	101.0	91.01	920	8	1	KW LG	WP 8A
MUNDAZET	58.0	23.7	10	65	25	1.92	14.5	7	70.3	0.43	13.9	1	60.3	3	61.9	3.50	3	101.0	88.10	965	8	1	KW LG	WP 8A
MUNDAZET	59.3	23.9	14	67	19	1.82	14.1	6	66.5	0.45	13.9	1	59.0	5	59.8	4.00	3	101.8	87.05	940	8	1	KW LG	WP 8A
M7111	59.2	29.0	21	61	18	1.85	14.8	5	67.0	0.46	15.1	1	62.3	6	63.3	4.75	2	103.5	85.05	1020	8	1	WP 00	8A
M7156	58.4	27.4	26	57	17	1.80	13.8	8	68.9	0.42	13.1	2	61.0	4	61.9	3.75	3	103.8	86.05	940	8	1	WP	8A
N50519	59.0	26.7	21	64	15	1.91	15.0	5	67.2	0.39	13.8	1	63.2	3	64.2	3.00	3	100.0	86.09	910	5	3	WP	8A
N50522	57.0	29.0	29	58	13	1.92	15.2	4	68.2	0.41	14.2	1	62.5	5	63.5	4.25	3	100.5	87.09	1040	8	1	WP	8A
N50527	60.2	26.2	17	68	15	1.92	15.1	4	67.2	0.47	15.5	1	64.2	3	64.2	4.25	3	100.0	86.10	1035	4	3	WP 8A	
N50528	57.0	28.4	28	57	15	1.80	15.9	2	65.7	0.48	15.0	1	62.5	5	63.5	4.00	3	100.5	87.10	1025	8	1	M65	8A
N50531	59.2	26.5	17	68	15	2.02	15.7	3	68.2	0.41	14.2	1	62.3	5	63.2	4.25	3	102.5	87.09	1020	8	1	PO	8A
N50532	58.7	27.9	20	66	14	1.88	15.3	3	66.8	0.42	14.0	1	62.8	3	63.7	3.00	3	101.0	89.99	960	8	1	8A	8A
N50533	58.4	28.7	25	58	17	1.90	13.0	8	66.5	0.43	13.6	1	64.2	4	65.2	3.25	3	101.0	88.99	950	4	1	8A	WP
N50534	58.3	28.7	27	59	14	1.85	15.2	4	70.5	0.37	13.9	1	63.5	5	64.1	3.75	3	101.0	88.07	965	5	3	WP	8A
N50535	57.0	28.6	31	53	16	1.83	14.6	5	68.3	0.37	14.1	1	62.3	3	63.5	2.75	4	100.0	90.99	980	8	1	WP 00	8A
N50535	56.2	25.0	9	68	23	1.90	14.9	6	68.4	0.36	14.1	1	61.3	6	62.3	5.00	3	100.0	86.05	955	8	1	LG WP MT	8A
N50535	55.6	26.1	18	60	16	1.84	14.4	6	68.0	0.36	14.1	1	62.3	7	63.2	5.50	2	102.0	86.07	980	8	1	MT 00	WP 8A
1/ CLEAN ORY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W. 1/ MAX MOISTURE BASIS.																								

1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = QUESTIONABLE-QUESTIONABLE, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY WEAK, 7 = VERY STRONG.

5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERNS. (1 = VERY WEAK, 2 = WEAK, 3 = PLIABLE, 4 = PLIABLE-ELASTIC, 5 = ELASTIC, 6 = ELASTIC-PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY WEAK, 30 = WEAK, 40 = SLIGHTLY WEAK, 50 = WEAK, 60 = SLIGHTLY WEAK, 70 = WEAK, 80 = SLIGHTLY WEAK, 90 = WEAK, 100 = SLIGHTLY WEAK, 110 = WEAK, 120 = SLIGHTLY WEAK, 130 = WEAK, 140 = SLIGHTLY WEAK, 150 = WEAK, 160 = SLIGHTLY WEAK, 170 = WEAK, 180 = SLIGHTLY WEAK, 190 = WEAK, 200 = SLIGHTLY WEAK, 210 = WEAK, 220 = SLIGHTLY WEAK, 230 = WEAK, 240 = SLIGHTLY WEAK, 250 = WEAK, 260 = SLIGHTLY WEAK, 270 = WEAK, 280 = SLIGHTLY WEAK, 290 = WEAK, 300 = SLIGHTLY WEAK, 310 = WEAK, 320 = SLIGHTLY WEAK, 330 = WEAK, 340 = SLIGHTLY WEAK, 350 = WEAK, 360 = SLIGHTLY WEAK, 370 = WEAK, 380 = SLIGHTLY WEAK, 390 = WEAK, 400 = SLIGHTLY WEAK, 410 = WEAK, 420 = SLIGHTLY WEAK, 430 = WEAK, 440 = SLIGHTLY WEAK, 450 = WEAK, 460 = SLIGHTLY WEAK, 470 = WEAK, 480 = SLIGHTLY WEAK, 490 = WEAK, 500 = SLIGHTLY WEAK, 510 = WEAK, 520 = SLIGHTLY WEAK, 530 = 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TABLE 2

QUALITY DATA OF UNIFORM REGIONAL NURSERY BLENDS

1975 CROP

VARIETY OR SEL. NO.	T. #	1000 KWT.			WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. EXT.	FLR. MIN.	FLR. MAX.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE ABS.	MIX. TIME	DOUGH CHAR.	CRUMBS COLOR	CRUMBS GRAIN	LOAF BAKE VOL. EVAL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY	
		LG	MD	SM																			
1/	2/	3/	4/	5/	6/	7/	8/	9/	10/	11/	12/	13/	14/	15/	16/	17/	18/	19/	20/	21/	22/	23/	
NORTHEASTERN REGION																							
BORAH	57.9	26.5	13	82	5	1.76	13.7	8	71.5	0.37	13.2	1	2	61.9	4	62.6	3	102.5	90.99	920	4	1	KW LG SM BA
CHRIS	60.5	26.4	13	84	3	1.66	15.7	3	69.2	0.38	15.4	1	3	64.2	4	64.9	3	102.0	89.70	920	2	4	KW LG
ERA	61.3	28.4	22	74	4	1.55	13.4	8	70.6	0.36	13.1	1	2	60.0	5	60.9	3	101.0	89.70	900	8	1	WP BA
JUSTIN	59.9	30.6	40	58	2	1.81	16.1	7	69.2	0.37	15.7	1	2	63.5	5	64.1	4	101.0	88.07	915	2	4	KW WP
MARQUIS	58.0	28.0	9	82	9	1.84	14.6	7	67.6	0.36	14.2	1	2	60.3	3	60.7	2	102.0	89.99	920	8	1	LG SM BA
SELKIRK	56.4	29.8	20	77	3	1.83	15.2	4	70.3	0.38	15.0	1	3	61.9	3	62.5	3	100.0	90.01	875	5	2	TW BA DO
WALDRON	59.4	31.7	39	59	2	1.63	15.7	3	67.9	0.39	14.8	1	3	61.9	3	62.3	3	102.8	88.10	1010	4	3	8A
MN6427	61.2	30.9	37	60	3	1.76	14.5	5	69.0	0.36	14.3	1	2	61.9	5	62.3	3	101.7	89.99	975	4	3	WP BA
MN6728	60.2	34.8	40	57	3	1.66	14.3	5	68.9	0.41	13.6	1	4	63.2	6	63.6	4	103.9	90.99	930	2	3	WP M65
MN7083	59.3	31.7	33	64	3	1.62	14.3	5	68.4	0.40	13.9	1	4	61.0	3	61.7	2	101.0	91.99	875	6	2	WP M65 DO
MN7086	60.8	30.8	33	65	2	1.69	15.0	3	70.9	0.37	14.4	1	2	61.0	3	61.7	3	101.0	91.99	940	5	3	8A
MN70113	61.2	38.6	64	35	1	1.68	15.0	3	70.0	0.35	14.5	1	2	64.2	5	65.2	4	101.0	90.70	1015	2	4	LG M65 PD DO
MN70121	57.7	29.8	16	80	4	1.75	15.2	4	72.0	0.41	14.1	1	4	62.5	4	63.9	3	102.8	89.99	960	4	2	WP BA
MN70175	60.5	27.1	19	78	3	1.73	14.2	6	70.0	0.34	13.3	1	1	60.3	2	61.7	3	101.0	86.99	920	5	3	WP M65 BA
MN70189	61.6	27.0	19	77	4	1.76	14.6	6	69.3	0.40	13.5	1	3	61.0	3	62.4	3	101.0	89.99	900	4	3	M65
MT711	62.3	33.4	26	71	3	1.48	15.4	2	70.6	0.40	14.7	1	3	62.8	6	64.0	4	102.0	84.05	1020	2	4	WP
MT7156	60.3	28.1	16	79	5	1.79	13.6	8	66.2	0.40	13.0	2	6	63.2	4	64.7	3	99.0	89.99	960	2	1	LG SM EX M65
N7519	61.7	31.1	29	69	2	1.64	15.4	2	69.5	0.38	14.3	1	3	65.3	4	66.7	3	101.0	88.99	910	2	4	PD
N7522	59.5	33.7	44	54	2	1.75	15.2	2	70.1	0.38	14.5	1	3	65.0	4	66.6	3	100.0	86.07	940	2	4	M65
N7527	62.2	31.5	24	74	2	1.74	16.2	2	69.0	0.43	14.9	1	8	65.7	5	67.3	3	103.0	82.05	930	2	1	PD
N7528	59.4	32.4	39	59	2	1.70	14.9	3	70.8	0.42	14.5	1	8	63.5	4	65.4	3	100.5	87.99	955	2	1	M65
N7531	61.6	28.7	22	73	3	1.84	15.9	2	68.7	0.41	15.0	1	5	63.8	4	65.2	4	100.0	88.99	925	2	3	M65
N7532	60.9	30.7	26	72	2	1.77	15.1	3	68.8	0.37	14.1	1	2	64.2	3	66.0	2	101.0	84.07	935	3	1	PD
N7533	61.4	32.9	37	61	2	1.68	14.8	4	68.1	0.43	14.0	1	8	64.2	3	66.0	2	101.0	89.99	890	3	1	WP DO
N7534	59.8	31.1	29	67	4	1.68	15.7	2	72.5	0.33	15.2	1	1	63.2	4	65.0	4	100.0	85.07	960	2	4	PD
N7535	60.0	33.1	36	61	3	1.83	15.4	2	70.5	0.34	14.3	1	2	61.3	2	62.9	4	100.0	90.99	940	4	3	PD DO
N7562T	58.1	27.4	10	83	7	1.70	14.6	6	69.6	0.35	14.0	1	2	64.4	6	65.6	5	101.7	84.05	995	3	3	LG SM WP MT
MT7678164	58.0	29.6	26	69	5	1.69	13.8	6	69.5	0.34	13.6	1	2	64.2	7	65.7	3	101.0	85.05	1070	8	1	SM

1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR PACKAGE-FREE T.M.

2/ 1% MOISTURE BASIS. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-SATISFACTORY. 5 = QUESTIONABLE. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-QUESTIONABLE. 8 = UNSATISFACTORY.

3/ 1 = VERY SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-SATISFACTORY. 5 = QUESTIONABLE. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-QUESTIONABLE. 8 = UNSATISFACTORY.

4/ 1 = VERY SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-SATISFACTORY. 5 = QUESTIONABLE. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-QUESTIONABLE. 8 = UNSATISFACTORY.

5/ 1 = VERY SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-SATISFACTORY. 5 = QUESTIONABLE. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-QUESTIONABLE. 8 = UNSATISFACTORY.

6/ 1 = BUCKY. 2 = VERY ELASTIC. 3 = ELASTIC. 4 = ELASTIC-PLIABLE. 5 = PLIABLE-ELASTIC. 6 = PLIABLE. 7 = PLIABLE-WEAK. 8 = WEAK-P LIABLE. 9 = WEAK. 10 = VERY WEAK. 20 = SLIGHTLY DEAD. 30 = DEAD.

7/ XXX+9 = BRIGHT WHITE. XXX+8 = WHITE. XXX+7 = SLIGHTLY CREAMY. XXX+6 = BRIGHT CREAMY. XXX+5 = CREAMY. XXX+4 = VERY CREAMY. XXX+3 = GRAY. XXX+2 = DULL GRAY. XXX+1 = VERY GRAY.

8/ XXX+00 = SOGGY. XXX+01 = THICK WALL OR HARSH. XXX+03 = CLOSE. XXX+05 = OPEN. IRREGULAR. XXX+06 = OPEN-SLIGHTLY IRREGULAR. XXX+07 = IRREGULAR. XXX+09 = OPEN. XXX+10 = SLIGHTLY OPEN. IRREGULAR.

9/ XXX+50 = SLIGHTLY IRREGULAR. XXX+70 = SLIGHTLY OPEN. XXX+90 = SLIGHTLY IRREGULAR. XXX+99 = NORMAL.

10/ 1 = NO PROMISE. 2 = LITTLE PROMISE. 3 = SOME PROMISE. 4 = GOOD PROMISE.

TABLE 3

QUALITY DATA OF UNIFORM REGIONAL NURSERY BLENDS

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KVT.	KERNEL SIZE		WHT. MIN.	WHT. 2/	WHT. 3/	KEEN. CHGR.	FLR. EXT.	FLR. MIN-2	FLR. PRO.	MLG. CHGR.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE ABS.	BAKE 2/	MIX. TIME	DOUGH CHAR.	DOUGH COLOR	CRUMBS GRAIN	LOAF VOL.	BAKE EVAL.	GEN. EVAL.	MAJOR DEFICIENCY
			LG	SM																					
WESTERN REGION																									
BORAH	58.6	29.6	26	65	9	1.73	14.4	5	69.7	0.33	13.5	1	2	64.2	4	64.7	3.25	3	101.7	89.99	990	5	3	WP	BA
CHRIS	59.8	28.2	23	71	6	1.59	15.3	2	68.8	0.36	14.4	1	2	65.0	4	65.9	3.75	3	102.8	85.05	970	2	4	BA	WP
ERA	59.5	27.5	23	65	12	1.66	13.4	8	69.2	0.39	12.6	1	3	64.2	5	65.7	5.00	3	101.0	87.05	985	4	1	BA	
JUSTIN	59.3	30.3	32	62	6	1.76	16.1	2	68.9	0.37	14.6	1	2	66.6	4	68.1	4.00	3	100.0	86.07	900	2	4	BA	
MARQUIS	59.3	29.8	31	64	5	1.83	15.6	2	68.3	0.37	15.3	1	2	66.3	4	68.2	3.75	3	101.0	90.99	935	2	4	WM	
SELKIRK	59.6	29.5	26	65	9	1.73	15.2	3	69.7	0.38	14.7	1	3	64.7	4	66.6	3.00	4	101.5	89.01	905	4	3	TW 00	
WALDRON	58.7	30.7	36	59	5	1.73	15.7	2	68.6	0.39	14.8	1	3	64.7	5	66.2	4.25	3	101.0	87.09	970	2	4	M65	
W6427	61.1	30.3	35	60	5	1.63	14.5	5	69.2	0.37	14.5	1	2	63.2	5	65.0	4.75	3	101.8	90.99	925	4	3	WP BA	
W6728	59.2	35.4	33	59	8	1.63	14.5	5	69.2	0.41	13.4	1	5	64.7	5	66.8	4.50	3	100.0	89.99	925	2	3	WP	M65
W7083	59.4	29.4	31	63	6	1.59	15.0	3	67.5	0.42	14.2	1	8	61.9	3	63.7	3.00	4	100.0	88.09	910	8	1	00	M65 BA
W7086	58.7	28.0	26	65	9	1.66	14.4	5	70.9	0.37	13.7	1	2	61.9	4	63.8	3.50	3	101.0	90.99	980	8	1	WP	BA
W70113	60.3	36.0	44	52	4	1.57	14.6	4	69.3	0.43	14.6	1	2	63.2	4	65.0	3.25	3	103.9	90.99	1010	4	3	WP	M65 BA
W70121	57.5	30.0	26	59	15	1.71	15.0	4	69.7	0.43	14.3	1	8	61.0	4	62.8	3.50	3	102.8	89.99	940	8	1	WP	BA
W70135	59.3	28.4	26	68	11	1.78	14.6	6	69.2	0.39	13.6	1	3	61.6	3	62.9	3.25	3	103.0	89.99	925	8	1	KW	BA
W70180	60.2	25.8	23	66	11	1.78	14.6	6	69.2	0.39	13.6	1	3	61.6	4	62.2	3.75	3	102.8	89.99	925	8	1	KW	WP M65
W711	61.6	32.0	29	63	8	1.74	15.0	3	70.4	0.40	14.4	1	4	64.2	7	64.9	5.50	3	103.0	87.09	1015	5	2	M65 BA	NT
W7156	60.6	29.8	29	65	6	1.52	14.1	5	66.6	0.36	13.3	2	3	63.8	5	64.5	4.50	3	103.9	89.99	985	5	2	WP	BA
W519	61.0	29.8	28	66	6	1.68	15.3	2	68.7	0.33	14.4	1	2	63.8	4	64.4	3.25	3	100.0	87.99	910	5	3	BA	BA
W522	57.4	31.2	32	61	7	1.72	15.4	3	69.2	0.36	14.8	1	2	63.5	5	64.5	4.50	3	102.8	86.09	1020	4	3	BA	BA
W527	62.2	28.4	24	70	6	1.73	15.8	2	69.0	0.37	15.4	1	2	64.4	6	65.3	4.50	3	101.0	86.09	975	4	3	BA	
W528	59.1	31.5	33	60	7	1.76	14.8	4	69.2	0.39	14.1	1	3	63.5	5	64.5	4.75	3	101.5	85.07	1090	4	3	WP	M65
W531	60.8	27.7	23	71	6	1.74	15.5	3	68.7	0.40	14.9	1	4	64.2	5	65.2	4.25	3	100.0	87.99	950	4	2	M65 BA	
W532	60.8	29.9	25	68	7	1.71	15.2	2	68.0	0.35	14.3	1	2	64.2	3	65.2	3.00	4	109.0	89.99	935	6	2	BA	00
W533	60.3	30.1	25	67	8	1.72	15.1	2	67.7	0.36	13.8	1	3	64.4	4	65.3	3.25	3	100.0	88.99	910	4	3	BA	
W534	60.0	31.5	33	61	6	1.69	14.9	3	71.5	0.31	14.8	1	1	63.8	4	64.8	4.25	3	101.0	89.99	955	5	3	BA	BA
W535	58.3	31.5	36	58	6	1.72	15.5	2	70.0	0.34	13.8	1	2	62.8	3	64.0	3.00	4	100.7	89.99	935	8	1	00	BA
W626T	58.3	28.0	20	68	12	1.77	15.6	3	68.9	0.34	14.7	1	2	62.5	5	64.6	4.75	3	102.8	88.99	990	5	3	BA	BA
W678164	57.9	29.6	25	67	8	1.80	15.4	3	69.0	0.40	14.5	1	4	64.2	4	66.1	4.25	3	101.5	87.07	1045	2	3	WM	M65

1/ CLEAN ORY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = QUESTIONABLE-QUESTIONABLE, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY, 8 = UNSATISFACTORY.

3/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

4/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-P LIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAO, 30 = DEAO.

5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK --- 11 = VERY STRONG)

6/ XXX.9 = BRIGHT WHITE, XXX.8 = WHITE, XXX.7 = SLIGHTLY CREAMY, XXX.6 = BRIGHT CREAMY, XXX.5 = CREAMY, XXX.4 = VERY CREAMY, XXX.3 = GRAY, XXX.2 = DULL GRAY, XXX.1 = SLIGHTLY GRAY, XXX.0 = SLIGHTLY OPEN, XXX.00 = 50GGY, XXX.01 = THICK WALL OR HARSH, XXX.02 = CLOSE, XXX.03 = OPEN, XXX.04 = SLIGHTLY IRREGULAR, XXX.05 = OPEN, XXX.06 = OPEN, XXX.07 = IRREGULAR-OPEN, XXX.08 = OPEN, XXX.09 = OPEN, XXX.10 = IRREGULAR, XXX.20 = SLIGHTLY OPEN, XXX.30 = SLIGHTLY OPEN, XXX.40 = SLIGHTLY OPEN, XXX.50 = SLIGHTLY OPEN, XXX.60 = SLIGHTLY OPEN, XXX.70 = SLIGHTLY OPEN, XXX.80 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY OPEN, XXX.99 = NORMAL.

7/ XXX.00 = 50GGY, XXX.01 = THICK WALL OR HARSH, XXX.02 = CLOSE, XXX.03 = OPEN, XXX.04 = SLIGHTLY IRREGULAR, XXX.05 = OPEN, XXX.06 = OPEN, XXX.07 = IRREGULAR-OPEN, XXX.08 = OPEN, XXX.09 = OPEN, XXX.10 = IRREGULAR, XXX.20 = SLIGHTLY OPEN, XXX.30 = SLIGHTLY OPEN, XXX.40 = SLIGHTLY OPEN, XXX.50 = SLIGHTLY OPEN, XXX.60 = SLIGHTLY OPEN, XXX.70 = SLIGHTLY OPEN, XXX.80 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY OPEN, XXX.99 = NORMAL.

8/ XXX.00 = 50GGY, XXX.01 = THICK WALL OR HARSH, XXX.02 = CLOSE, XXX.03 = OPEN, XXX.04 = SLIGHTLY IRREGULAR, XXX.05 = OPEN, XXX.06 = OPEN, XXX.07 = IRREGULAR-OPEN, XXX.08 = OPEN, XXX.09 = OPEN, XXX.10 = IRREGULAR, XXX.20 = SLIGHTLY OPEN, XXX.30 = SLIGHTLY OPEN, XXX.40 = SLIGHTLY OPEN, XXX.50 = SLIGHTLY OPEN, XXX.60 = SLIGHTLY OPEN, XXX.70 = SLIGHTLY OPEN, XXX.80 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY OPEN, XXX.99 = NORMAL.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 4
QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

VARIETY OR SEL. NO.	T.W. #/300.	1000 KERN. SIZE			WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. EXT.	MIN. 3 5SEX.	FLR. PRO.	MLG. CHAR.	MLG. PER.	MIX. ASS.	MIX. PAT.	BAKE ABS.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMB GRAIN	LOAF BAKE		GEN.	MAJOR DEFICIENCY	
		G.	X	%																VOL.	EVAL.			
																								3/
1/300.	2/	3/	4/	5/	6/	7/	8/	9/	CC.															
AREA AVERAGES OF CHRIS, JUSTIN AND SELKIRK																								
SOUTHEAST NORTHEAST WESTERN	56.3	27.8	25	62	13	1.95	16.1	4	68.0	0.45	15.3	1	8	64.3	4	66.2	3.25	3	100.5	89.03	950	2	1	M65
	58.9	29.0	24	73	3	1.76	15.7	2	69.6	0.37	15.4	1	2	63.2	4	63.8	3.33	3	101.0	89.25	903	4	3	
	58.6	29.3	27	66	7	1.69	15.6	2	69.1	0.36	14.6	1	2	65.4	4	66.9	3.58	3	101.4	86.70	925	2	4	
CROP YEAR AVERAGE																								
1970 AVERAGE 1971 AVERAGE 1972 AVERAGE 1973 AVERAGE 1974 AVERAGE	59.9	27.0	22	72	6	1.71	16.1	3	65.2	0.37	15.4	1	4	64.1	4	64.1	3.39	5	0.1	90.33	985	4	2	KW M65 DO COL MP LG SM
	60.4	32.0	32	65	3	1.64	15.2	2	65.9	0.34	14.6	1	3	62.6	3	62.6	2.75	4	100.9	93.98	975	2	4	
	60.4	34.2	47	50	3	1.61	14.3	4	68.3	0.30	13.5	1	1	61.3	4	61.3	2.84	3	101.0	89.68	930	6	3	
	59.5	32.3	34	62	4	1.63	15.3	2	67.6	0.33	14.6	1	2	63.4	5	63.4	3.75	3	100.2	90.90	990	3	4	
	58.1	27.4	20	67	13	1.78	16.0	4	66.9	0.35	15.4	1	3	63.1	5	63.2	3.75	3	102.0	88.26	1020	3	3	
1975 AVERAGE 1970-74 AV:	58.1	28.8	25	68	7	1.78	15.8	3	69.0	0.39	15.1	1	8	64.3	4	65.5	3.40	3	101.0	88.24	923	3	1	M65
	59.7	30.6	31	63	6	1.68	15.4	2	66.8	0.34	14.7	1	2	62.9	4	62.9	3.69	4	80.8	90.63	980	2	4	
CLEAN DRY - SUBTRACT 1 LB./300. FOR DOCKAGE-FREE T.W.																								

1/ CLEAN DRY - SUBTRACT 1 LB./80. FOR DOCKAGE-FREE T.W.

2/ 1% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-UNSATISFACTORY, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK --- 11 = VERY STRONG)

6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

7/ XXX.9 = BRIGHT WHITE. XXX.8 = WHITE. XXX.7 = SLIGHTLY CREAMY. XXX.6 = BRIGHT CREAMY. XXX.5 = CREAMY. XXX.4 = VERY CREAMY. XXX.3 = GRAY. XXX.2 = DULL GRAY. XXX.1 = VERY GRAY.

8/ XXX.00 = SMOOTH. XXX.01 = SLIGHTLY IRREGULAR. XXX.02 = SLIGHTLY OPEN. XXX.03 = SLIGHTLY IRREGULAR. XXX.04 = SLIGHTLY OPEN. XXX.05 = SLIGHTLY IRREGULAR. XXX.06 = OPEN. XXX.07 = IRREGULAR-OPEN. XXX.08 = OPEN. XXX.09 = OPEN. XXX.10 = IRREGULAR. XXX.11 = OPEN. XXX.12 = SLIGHTLY OPEN. XXX.13 = SLIGHTLY OPEN. XXX.14 = SLIGHTLY OPEN. XXX.15 = SLIGHTLY OPEN. XXX.16 = SLIGHTLY OPEN. XXX.17 = SLIGHTLY OPEN. XXX.18 = SLIGHTLY OPEN. XXX.19 = SLIGHTLY OPEN. XXX.20 = SLIGHTLY OPEN. XXX.21 = SLIGHTLY OPEN. XXX.22 = SLIGHTLY OPEN. XXX.23 = SLIGHTLY OPEN. XXX.24 = SLIGHTLY OPEN. XXX.25 = SLIGHTLY OPEN. XXX.26 = SLIGHTLY OPEN. XXX.27 = SLIGHTLY OPEN. XXX.28 = SLIGHTLY OPEN. XXX.29 = SLIGHTLY OPEN. XXX.30 = SLIGHTLY OPEN. XXX.31 = SLIGHTLY OPEN. XXX.32 = SLIGHTLY OPEN. XXX.33 = SLIGHTLY OPEN. XXX.34 = SLIGHTLY OPEN. XXX.35 = SLIGHTLY OPEN. XXX.36 = SLIGHTLY OPEN. XXX.37 = SLIGHTLY OPEN. XXX.38 = SLIGHTLY OPEN. XXX.39 = SLIGHTLY OPEN. XXX.40 = SLIGHTLY OPEN. XXX.41 = SLIGHTLY OPEN. XXX.42 = SLIGHTLY OPEN. XXX.43 = SLIGHTLY OPEN. XXX.44 = SLIGHTLY OPEN. XXX.45 = SLIGHTLY OPEN. XXX.46 = SLIGHTLY OPEN. XXX.47 = SLIGHTLY OPEN. XXX.48 = SLIGHTLY OPEN. XXX.49 = SLIGHTLY OPEN. XXX.50 = SLIGHTLY OPEN. XXX.51 = SLIGHTLY OPEN. XXX.52 = SLIGHTLY OPEN. XXX.53 = SLIGHTLY OPEN. XXX.54 = SLIGHTLY OPEN. XXX.55 = SLIGHTLY OPEN. XXX.56 = SLIGHTLY OPEN. XXX.57 = SLIGHTLY OPEN. XXX.58 = SLIGHTLY OPEN. XXX.59 = SLIGHTLY OPEN. XXX.60 = SLIGHTLY OPEN. XXX.61 = SLIGHTLY OPEN. XXX.62 = SLIGHTLY OPEN. XXX.63 = SLIGHTLY OPEN. XXX.64 = SLIGHTLY OPEN. XXX.65 = SLIGHTLY OPEN. XXX.66 = SLIGHTLY OPEN. XXX.67 = SLIGHTLY OPEN. XXX.68 = SLIGHTLY OPEN. XXX.69 = SLIGHTLY OPEN. XXX.70 = SLIGHTLY OPEN. XXX.71 = SLIGHTLY OPEN. XXX.72 = SLIGHTLY OPEN. XXX.73 = SLIGHTLY OPEN. XXX.74 = SLIGHTLY OPEN. XXX.75 = SLIGHTLY OPEN. XXX.76 = SLIGHTLY OPEN. XXX.77 = SLIGHTLY OPEN. XXX.78 = SLIGHTLY OPEN. XXX.79 = SLIGHTLY OPEN. XXX.80 = SLIGHTLY OPEN. XXX.81 = SLIGHTLY OPEN. XXX.82 = SLIGHTLY OPEN. XXX.83 = SLIGHTLY OPEN. XXX.84 = SLIGHTLY OPEN. XXX.85 = SLIGHTLY OPEN. XXX.86 = SLIGHTLY OPEN. XXX.87 = SLIGHTLY OPEN. XXX.88 = SLIGHTLY OPEN. XXX.89 = SLIGHTLY OPEN. XXX.90 = SLIGHTLY OPEN. XXX.91 = SLIGHTLY OPEN. XXX.92 = SLIGHTLY OPEN. XXX.93 = SLIGHTLY OPEN. XXX.94 = SLIGHTLY OPEN. XXX.95 = SLIGHTLY OPEN. XXX.96 = SLIGHTLY OPEN. XXX.97 = SLIGHTLY OPEN. XXX.98 = SLIGHTLY OPEN. XXX.99 = SLIGHTLY OPEN. XXX.100 = SLIGHTLY OPEN.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

VARIETY OR T.W.		1000 KFT.		KERNEL SIZE LG MED SM		WHT. MIN.		WHT. PRO.		KERN. CHAK.		FLR. EXT. 65SEK.		FLR. MIN. 2		FLR. MLG.		MLG. PRO.		BAKE ABS.		MIX. TIME		DOUGH CHAR.		GRUMB COLOR		CRUMB GRAIN		LOAF BAKE VOL.		GEN. EVAL.		MINOR DEFICIENCY		MAJOR DEFICIENCY	
480.		G.		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%	
EL CENTRO, CALIFORNIA																																					
61-3	32.6	57	42	1	1.69	14.4	2	68.2	0.40	14.0	1	2	62.7	4	63.1	3.50	3	100.0	39.99	905	2	4															
61-3	35.5	42	50	8	1.52	10.5	8	69.5	0.38	9.7	2	1	59.1	1	58.6	2.25	9	102.5	80.01	650	8	1															
62-1	44.6	67	32	1	1.53	10.8	8	66.5	0.47	10.4	3	8	61.4	5	61.4	5.00	5	101.8	85.09	755	8	1															
64-3	41.5	67	30	1	1.36	11.6	8	67.4	0.37	11.2	2	2	61.9	3	62.4	3.00	3	101.8	86.99	835	3	1															
63-1	41.0	55	39	6	1.44	11.8	8	67.8	0.36	11.3	3	2	61.6	3	62.1	3.00	3	100.0	86.99	860	4	1															
VEECORA RD JO																																					
63-5	46.3	56	39	5	1.40	10.6	8	66.3	0.44	10.4	3	5	59.3	3	59.8	6.25	6	100.8	85.09	740	8	1															
64-1	37.5	44	51	5	1.58	11.5	8	67.2	0.40	11.2	2	3	64.2	3	64.9	3.50	4	100.0	86.09	815	5	1															
62-0	34.5	49	44	7	1.60	11.4	8	65.7	0.45	10.6	2	8	60.7	2	61.4	3.50	6	101.2	84.01	750	8	1															
63-6	31.2	22	74	4	1.45	10.9	8	57.5	0.46	10.4	3	8	61.9	4	62.8	4.00	20	102.6	83.01	680	6	1															
CLEAN GRAY - SUBTRACT 1 LB. 2/BU. FOR DOCKAGE-FREE T.W.																																					
1/4 x MOISTURE BASIS:																																					
1/2 x SH. PAKS, 2 = SATISFACTORY-QUESTIONABLE, 3 = SATISFACTORY-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-UNSATISFACTORY, 8 = UNSATISFACTORY.																																					
1 = NORMAL, 2 = SUBNORMAL, 3 = SOFT-NORMAL, 4 = SOFT, 5 = SLIGHTLY WEAK, 6 = VERY SOFT.																																					
1 = VERY WEAK --- 11 = VERY STRONG																																					
REFER TO REFERENCE MICROGRAMS FOR NUMERICAL CURVE PATTERNS.																																					
1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.																																					
XXX, 0 = BRIGHT WHITE, XXX, 8 = WHITE, XXX, 7 = SLIGHTLY CREAMY, XXX, 6 = BRIGHT CREAMY, XXX, 5 = CREAMY, XXX, 4 = VERY CREAMY, XXX, 3 = GRAY, XXX, 2 = DULL GRAY, XXX, 1 = VERY GRAY.																																					
XXX, 9 = SOGGY, XXX, 01 = THICK WALL OR HARSH, XXX, 03 = CLOSE, XXX, 05 = OPEN, IRREGULAR, XXX, 06 = OPEN+SLIGHTLY IRREGULAR, XXX, 07 = IRREGULAR, OPEN, XXX, 09 = OPEN, XXX, 10 = SLIGHTLY OPEN, IRREGULAR.																																					
XXX, 50 = SLIGHTLY IRREGULAR+OPEN, XXX, 70 = SLIGHTLY OPEN, XXX, 90 = SLIGHTLY IRREGULAR, XXX, 99 = NORMAL.																																					
1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.																																					

QUALITY DATA OF FIELD PLOT NURSERY SAMPLES

[illegible]

/ CLEAN DRY - SUBTRACT 1 LB./8U. FOR ODCAGE-FREE T.W.

2/ 14% MD1STURE BASIS.

1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE, 5 = VERY QUESTIONABLE, 6 = VERY POOR.

5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (I = VERY WEAK --- II = VERY STRONG)

1 = BUCKY; 2 = VERY ELASTIC; 3 = ELASTIC; 4 = ELASTIC-PLIABLE; 5 = PLIABLE-ELASTIC; 6 = PLIABLE-ELASTIC-PLIABLE; 7 = BRIGHT WHITE; 8 = SLIGHTLY CREAMY; 9 = BRIGHT CREAMY; XXX.5 = CREAMY; XXX.6 = BRIGHT CREAMY; XXX.7 = SLIGHTLY CREAMY; XXX.8 = WHITE; XXX.9 = BRIGHT WHITE.

XXX.00 = SDGGY. XXX.01 = THICK WALL OR HARSH. XXX.03 = CLOSE. XXX.05 = OPEN. IRREGULAR. XXX.06 =

xxx.50 = SLIGHTLY IRREGULAR, OPEN. xxx.70 = SLIGHTLY OPEN. xxx.90 = SLIGHTLY IRREGULAR. xxx.99 =

100

QUALITY DATA OF FIELD PLOT NURSERY SAMPLES

[illegible]

1975 CROP

[illegible]

[illegible]

VARIETY	DR	T-W.	1000 KWT.	KERNEL SIZE LG MED SW	MHT. MIN.	WHT. PRO.	KERN. CHAT.	FLR. EXT.	MIN. 3 EXT.	FLR. PRO.	NLC. PER	MIX. PAT.	BAKE AER.	MIX. TIME	DOUGH CHAR.	CUMBS COLOR	CRUMB GRAIN	LDAF VOL.	BAKE EVAL.	GEN. EVAL.	MAJOR DEFICIENCY
SEL.	NO.	#/BU.	G.	X	X	Z	27	37	X	27	37	47	57	67	77	87	97	CC.			
VARIETY AVERAGES																					
CHRIS		58.7	22.6	3	99	B	1.75	16.0	8	59.0	0.45	15.7	1	2	62.9	5	62.9	5	62.9	5	
FORDUNA		59.7	30.8	18	79	S	1.82	18.6	2	58.5	0.45	14.5	1	3	62.2	5	62.2	5	62.2	5	KW
MT704		57.7	23.4	8	89	B	1.85	15.1	6	59.1	0.44	14.6	1	2	61.7	9	61.7	9	61.7	9	LG
CON74315		50.5	26.1	6	85	9	1.82	15.4	3	60.6	0.48	15.0	1	3	61.7	7	61.7	7	61.7	7	KW BA
MT711																					LG M65
MT7340		59.3	28.2	11	84	5	1.76	18.7	4	57.4	0.45	14.4	2	3	59.7	10	59.7	10	59.7	10	MT DO
MT7348		60.7	29.0	24	73	S	1.82	15.8	2	58.3	0.45	15.5	2	3	64.2	8	64.2	8	64.2	8	MT DO
MT741		59.0	26.2	5	86	9	1.79	13.5	8	56.3	0.46	12.7	3	4	59.8	5	59.8	5	59.8	5	EX
MT744		55.1	20.7	1	76	23	1.88	18.3	8	57.8	0.59	13.7	2	8	59.9	7	59.9	7	59.9	7	KW WP
MT7546		52.0	18.5	1	68	31	2.05	18.7	8	56.1	0.55	14.2	2	8	63.5	7	63.5	7	63.5	7	EX DO
MT7561		53.7	18.7	1	73	26	2.03	14.5	8	56.7	0.53	14.2	2	8	63.5	7	63.5	7	63.5	7	WP EK DO
MT7566		55.0	28.4	16	77	S	1.68	14.7	5	59.5	0.46	14.3	1	3	62.1	4	62.1	4	62.1	4	TV
SU7		56.8	25.5	11	84	5	1.68	15.0	4	57.5	0.42	14.8	2	2	62.2	5	62.2	5	62.2	5	TV
56851		60.7	29.8	23	73	S	1.66	14.4	4	59.1	0.43	13.9	1	2	60.2	7	60.2	7	60.2	7	WP OD
57003		57.7	29.3	18	77	5	1.68	18.7	4	61.1	0.45	14.4	1	2	61.7	7	61.7	7	61.7	7	DO
57019		58.2	33.1	30	66	4	1.76	15.3	2	56.9	0.45	15.1	2	3	65.1	5	65.1	5	65.1	5	
57064		60.2	30.6	19	76	S	1.61	18.8	3	57.3	0.40	14.5	2	3	64.0	6	64.0	6	64.0	6	EX DO
57065		59.0	30.2	19	84	5	1.65	18.0	3	58.5	0.45	14.5	2	3	64.0	6	64.0	6	64.0	6	EX DO
57071		58.0	30.1	21	84	5	1.65	18.0	3	59.6	0.37	14.7	1	3	61.7	7	61.7	7	61.7	7	DO
57078		58.6	26.2	14	81	5	1.84	15.1	2	59.6	0.57	14.7	1	3	61.7	7	61.7	7	61.7	7	DO
57087		58.6	26.2	14	81	5	1.84	15.1	2	59.6	0.57	14.7	1	3	61.7	7	61.7	7	61.7	7	DO

1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 14% MDISTURE BASIS.

1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE, 5 = GRITTY, 6 = VERY SOFT.

5/ REFER TO REFERENCE MIXDGrams FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK --- 11 = VERY STRONG)

[illegible]

XXX.50 = SLIGHTLY IRREGULAR,DPEN, XXX.70 = SLIGHTLY DPEN, XXX.90 = SLI

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 11

QUALITY DATA OF SAWFLY NURSERY SAMPLES

1975 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KBT.			G.	Z	X	Y	WHT. MIN.	WHT. PRO.	KERN. CHGR.	FLR. EXT.	FLR. MIN.	FLR. PRO.	MLG. CHGR.	MLG. PER.	MIX. PAT.	MIX. ABS.	BAKE ADG.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMB GRAIN	LOAF VOL.	BAKE GEN.	MINOR DEFICIENCY	MAJOR DEFICIENCY		
		WHT.	SIZE	NO.																									
FARGO, NORTH DAKOTA - EXPERIMENT 71																													
CHRIS	60.5	27.0	14	85	1	1.09	16.7	3	59.1	0.52	16.4	2	2	62.8	2	62.8	2	62.8	2	62.8	2	5	100.8	90.70	193	4	3	KW LG DO	
FORTUNA	59.0	30.3	27	71	2	2.11	16.6	3	56.8	0.56	16.2	3	4	62.3	2	62.3	2	62.3	2	62.3	2	4	101.8	88.97	203	2	3	WM M65	
TIOGA	59.0	29.6	23	74	3	2.24	15.8	5	56.1	0.49	15.3	3	3	62.3	3	62.3	3	62.3	3	62.3	3	3	104.9	88.09	201	4	3	WM DO	WM
WALDRON	58.5	30.9	36	63	1	2.12	16.9	3	57.0	0.53	15.9	2	2	63.5	3	63.5	3	63.5	3	63.5	3	5	100.8	90.70	196	4	3	WM DO	
MT711	61.5	31.8	22	75	3	2.11	15.8	4	59.0	0.53	14.9	2	2	62.5	5	62.5	5	62.5	5	62.5	5	3	101.8	90.99	188	4	3	WM DO	
MT741	60.5	31.3	28	71	1	2.26	16.8	6	58.7	0.58	14.1	3	7	62.5	3	62.5	3	62.5	3	62.5	3	5	100.8	91.99	188	4	1	EX DO	WM WP M65
MT744	59.5	26.7	13	82	5	2.17	15.4	7	55.9	0.60	14.4	3	8	61.3	6	61.3	6	61.3	6	61.3	6	3	103.9	88.99	193	8	1	KW LG SM WP 8A DO	WM M65 MT
MT7340	61.0	33.1	32	67	1	2.07	15.6	3	56.9	0.51	15.0	2	2	60.7	5	60.7	5	60.7	5	60.7	5	3	101.8	90.99	190	8	1	WM WP MT DO	BA
MT7348	61.0	29.6	23	76	1	2.10	15.6	4	55.9	0.50	15.1	3	3	61.0	6	61.0	6	61.0	6	61.0	6	3	104.9	87.07	194	8	1	WM WP 8A MT DO	WM WP M65 ETC
MT7546	58.0	20.2	1	85	14	2.44	13.4	8	56.1	0.68	12.9	2	8	58.3	5	58.3	5	58.3	5	58.3	5	3	100.0	90.99	195	8	1	MT DO	WM LG SM WP
MT7561	58.0	20.1	1	84	15	2.31	12.9	8	56.8	0.66	12.1	2	8	56.7	6	56.7	6	56.7	6	56.7	6	3	101.8	87.05	196	8	1	MT DO	WM LG SM WP M65 ETC
MT7561	59.5	31.4	31	68	1	2.21	17.1	3	58.7	0.56	15.9	3	7	60.7	2	60.7	2	60.7	2	60.7	2	3	100.8	91.99	206	7	1	M65 DO	WM EX 8A
MT7003	58.5	33.1	31	58	1	2.00	16.6	3	56.3	0.53	16.5	2	4	61.9	3	61.9	3	61.9	3	61.9	3	5	101.8	91.99	195	4	2	M65 DO	WM EX 8A
MT7019	58.0	35.0	41	58	1	1.97	17.0	2	53.1	0.53	16.7	3	8	63.2	3	63.2	3	63.2	3	63.2	3	5	98.2	90.99	192	4	1	DO	EX
MT7064	58.5	34.7	43	56	1	2.00	17.2	3	51.6	0.52	17.0	3	8	62.8	2	62.8	2	62.8	2	62.8	2	6	99.2	89.99	192	4	1	WM DO	EX
MT7065	60.0	32.7	43	56	1	2.08	16.3	2	58.5	0.58	15.9	2	5	61.3	2	61.3	2	61.3	2	61.3	2	3	100.0	87.99	200	6	1	WM BA DO	M65
MT7068	57.0	33.6	45	54	1	2.07	15.6	3	57.5	0.52	15.4	2	2	61.3	2	61.3	2	61.3	2	61.3	2	3	100.0	89.09	191	4	3	WM WP BA	BA
MT7068	57.5	29.4	33	66	1	1.91	15.2	4	57.5	0.46	15.0	2	2	59.7	3	59.7	3	59.7	3	59.7	3	3	100.0	90.99	181	8	1	WM DO LV	LG SM WM
MT7743-151	59.0	24.7	5	89	6	2.29	15.8	8	56.3	0.57	15.2	2	5	61.6	4	61.6	4	61.6	4	61.6	4	3	100.8	88.05	203	6	1	KW M65 8A DO	
MINOT, NORTH DAKOTA - EXPERIMENT 71																													
CHRIS	62.0	38.0	13	84	3	1.70	14.7	3	59.9	0.42	14.5	1	3	61.3	3	61.3	3	61.3	3	61.3	3	3	102.5	88.09	177	2	4	LG	WM EX M65 8A DO
FORTUNA	62.5	33.6	32	96	2	1.65	15.0	2	60.4	0.41	14.9	1	2	61.6	4	61.6	4	61.6	4	61.6	4	3	101.8	87.07	191	2	4	WM 8A	WM LG SM WP M65 8A
TIOGA	60.5	29.4	25	71	4	1.85	14.7	3	57.3	0.41	14.0	2	3	62.3	3	62.3	3	62.3	3	62.3	3	3	101.8	90.70	181	4	3	KW WM 8A	WM LG SM WP M65 8A
WALDRON	61.5	31.4	24	55	1	1.77	14.7	3	56.0	0.41	14.6	1	3	62.3	3	62.3	3	62.3	3	62.3	3	3	101.8	91.99	193	2	4	KW LG WP BA	WM LG SM WP M65 8A
MT711	63.5	29.9	17	80	3	1.77	13.5	6	60.1	0.42	13.3	1	3	62.3	3	62.3	3	62.3	3	62.3	3	3	102.8	90.99	183	4	3	KW LG WP BA	WM LG SM WP M65 8A
MT741	61.5	29.9	17	80	3	1.83	12.2	3	58.2	0.47	11.6	3	8	57.8	3	57.8	3	57.8	3	57.8	3	3	102.8	91.99	179	8	1	KW LG MT	WM LG SM WP M65 8A DO
MT744	58.5	23.8	5	83	12	1.73	13.8	8	58.2	0.47	13.4	2	8	58.1	7	58.1	7	58.1	7	58.1	7	3	103.8	90.99	188	8	1	WM WP BA DO	WM LG SM WP M65 8A DO
MT7340	61.5	32.2	25	72	3	1.78	13.3	6	57.7	0.44	12.9	2	4	59.0	7	59.0	7	59.0	7	59.0	7	3	101.8	89.99	194	2	3	KW EX M65	WM LG SM WP M65 8A
MT7348	61.5	30.3	37	61	2	1.75	15.2	2	56.6	0.43	15.0	2	5	63.5	6	63.5	6	63.5	6	63.5	6	3	101.8	90.99	194	2	3	KW EX M65	WM LG SM WP M65 8A
MT7546	55.5	19.5	4	78	18	1.86	13.3	8	57.7	0.49	12.5	2	8	58.7	6	58.7	6	58.7	6	58.7	6	3	101.0	90.99	191	8	1	WM	WM LG SM WP M65 8A
MT7561	57.0	19.0	3	82	15	1.91	12.9	8	58.4	0.48	12.3	2	8	59.0	4	59.0	4	59.0	4	59.0	4	3	100.0	88.09	185	5	1	WM	WM LG SM WP M65 8A
MT7003	63.5	32.8	34	65	1	1.73	13.7	4	58.2	0.41	13.5	1	2	59.7	4	59.7	4	59.7	4	59.7	4	3	100.0	91.99	184	2	4	WM 8A	WM LG SM WP M65 8A
MT7003	60.5	33.0	37	61	2	1.71	15.2	2	58.0	0.39	14.9	1	3	64.2	4	64.2	4	64.2	4	64.2	4	3	101.8	90.99	192	2	4	M65	WM LG SM WP M65 8A
MT7019	61.0	37.5	53	46	1	1.71	15.1	2	58.0	0.44	14.9	2	4	64.2	4	64.2	4	64.2	4	64.2	4	3	101.0	90.99	182	2	3	DO	WM LG SM WP M65 8A
MT7064	62.0	33.1	34	63	3	1.53	14.3	2	58.0	0.38	14.1	2	2	63.5	6	63.5	6	63.5	6	63.5	6	3	102.8	90.99	195	4	3	DO	WM LG SM WP M65 8A
MT7065	62.0	35.0	45	54	1	1.47	14.2	3	55.7	0.39	14.0	3	4	61.9	5	61.9	5	61.9	5	61.9	5	3	101.8	89.99	190	4	2	DO	WM LG SM WP M65 8A
MT7068	60.0	28.6	11	85	4	1.74	14.7	5	60.6	0.43	14.4	1	3	61.0	4	61.0	4	61.0	4	61.0	4	3	101.8	89.99	180	2	4	WM LG M65	WM LG SM WP M65 8A
MT7068	59.0	32.6	41	57	2	1.64	12.4	8	58.8	0.39	11.9	1	2	58.7	2	58.7	2	58.7	2	58.7	2	3	101.7	89.99	171	8	1	WM LG M65	WM LG SM WP M65 8A
MT7068	61.0	29.3	23	76	1	1.62	13.5	5	58.7	0.38	13.3	2	2	58.1	3	58.1	3	58.1	3	58.1	3	3	101.5	90.99	167	8	1	WM LG M65	WM LG SM WP M65 8A
MT743-151	58.5	22.6	3	86	11	1.79	14.8	8	58.2	0.43	14.6	2	3	61.3	6	61.3	6	61.3	6	61.3	6	3	100.0	88.09	192	2	1	WM M65	WM LG SM WP M65 8A
1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W. 2/ LAZ MOISTURE BASIS. 3/ 1 = VERY SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-SATISFACTORY. 5 = QUESTIONABLE-UNSATISFACTORY. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-QUESTIONABLE. 8 = UNSATISFACTORY. 4/ 1 = NORMAL. 2 = NORMAL-SOFT. 3 = SOFT-NORMAL. 4 = SOFT. 5 = GRITTY. 6 = VERY SOFT. 5/ REFER TO REFERENCE MIXTURES FOR NUMERICAL CURVE PATTERNS. (1 = VERY WEAK. 2 = SLIGHTLY WEAK. 3 = WEAK. 4 = VERY WEAK. 5 = DEAD. 6/ 1 = SUFFICIENTLY ELASTIC. 2 = ELASTIC. 3 = ELASTIC. 4 = ELASTIC. 5 = ELASTIC. 6 = ELASTIC. 7 = ELASTIC. 8 = ELASTIC. 9 = ELASTIC. 10 = ELASTIC. 11 = ELASTIC. 12 = ELASTIC. 13 = ELASTIC. 14 = ELASTIC. 15 = ELASTIC. 16 = ELASTIC. 17 = ELASTIC. 18 = ELASTIC. 19 = ELASTIC. 20 = ELASTIC. 21 = ELASTIC. 22 = ELASTIC. 23 = ELASTIC. 24 = ELASTIC. 25 = ELASTIC. 26 = ELASTIC. 27 = ELASTIC. 28 = ELASTIC. 29 = ELASTIC. 30 = ELASTIC. 31 = ELASTIC. 32 = ELASTIC. 33 = ELASTIC. 34 = ELASTIC. 35 = ELASTIC. 36 = ELASTIC. 37 = ELASTIC. 38 = ELASTIC. 39 = ELASTIC. 40 = ELASTIC. 41 = ELASTIC. 42 = ELASTIC. 43 = ELASTIC. 44 = ELASTIC. 45 = ELASTIC. 46 = ELASTIC. 47 = ELASTIC. 48 = ELASTIC. 49 = ELASTIC. 50 = ELASTIC. 51 = ELASTIC. 52 = ELASTIC. 53 = ELASTIC. 54 = ELASTIC. 55 = ELASTIC. 56 = ELASTIC. 57 = ELASTIC. 58 = ELASTIC. 59 = ELASTIC. 60 = ELASTIC. 61 = ELASTIC. 62 = ELASTIC. 63 = ELASTIC. 64 = ELASTIC. 65 = ELASTIC. 66 = ELASTIC. 67 = ELASTIC. 68 = ELASTIC. 69 = ELASTIC. 70 = ELASTIC. 71 = ELASTIC. 72 = ELASTIC. 73 = ELASTIC. 74 = ELASTIC. 75 = ELASTIC. 76 = ELASTIC. 77 = ELASTIC. 78 = ELASTIC. 79 = ELASTIC. 80 = ELASTIC. 81 = ELASTIC. 82 = ELASTIC. 83 = ELASTIC. 84 = ELASTIC. 85 = ELASTIC. 86 = ELASTIC. 87 = ELASTIC. 88 = ELASTIC. 89 = ELASTIC. 90 = ELASTIC. 91 = ELASTIC. 92 = ELASTIC. 93 = ELASTIC. 94 = ELASTIC. 95 = ELASTIC. 96 = ELASTIC. 97 = ELASTIC. 98 = ELASTIC. 99 = ELASTIC. 100 = ELASTIC. 101 = ELASTIC. 102 = ELASTIC. 103 = ELASTIC. 104 = ELASTIC. 105 = ELASTIC. 106 = ELASTIC. 107 = ELASTIC. 108 = ELASTIC. 109 = ELASTIC. 110 = ELASTIC. 111 = ELASTIC. 112 = ELASTIC. 113 = ELASTIC. 114 = ELASTIC. 115 = ELASTIC. 116 = ELASTIC. 117 = ELASTIC. 118 = ELASTIC. 119 = ELASTIC. 120 = ELASTIC. 121 = ELASTIC. 122 = ELASTIC. 123 = ELASTIC. 124 = ELASTIC. 125 = ELASTIC. 126 = ELASTIC. 127 = ELASTIC. 128 = ELASTIC. 129 = ELASTIC. 130 = ELASTIC. 131 = ELASTIC. 132 = ELASTIC. 133 = ELASTIC. 134 = ELASTIC. 135 = ELASTIC. 136 = ELASTIC. 137 = ELASTIC. 138 = ELASTIC. 139 = ELASTIC. 140 = ELASTIC. 141 = ELASTIC. 142 = ELASTIC. 143 = ELASTIC. 144 = ELASTIC. 145 = ELASTIC. 146 = ELASTIC. 147 = ELASTIC. 148 = ELASTIC. 149 = ELASTIC. 150 = ELASTIC. 151 = ELASTIC. 152 = ELASTIC. 153 = ELASTIC. 154 = ELASTIC. 155 = ELASTIC. 156 = ELASTIC. 157 = ELASTIC. 158 = ELASTIC. 159 = ELASTIC. 160 = ELASTIC. 161 = ELASTIC. 162 = ELASTIC. 163 = ELASTIC. 164 = ELASTIC. 165 = ELASTIC. 166 = ELASTIC. 167 = ELASTIC. 168 = ELASTIC. 169 = ELASTIC. 170 = ELASTIC. 171 = ELASTIC. 172 = ELASTIC. 173 = ELASTIC. 174 = ELASTIC. 175 = ELASTIC. 176 = ELASTIC. 177 = ELASTIC. 178 = ELASTIC. 179 = ELASTIC. 180 = ELASTIC. 181 = ELASTIC. 182 = ELASTIC. 183 = ELASTIC. 184 = ELASTIC. 185 = ELASTIC. 186 = ELASTIC. 187 = ELASTIC. 188 = ELASTIC. 189 = ELASTIC. 190 = ELASTIC. 191 = ELASTIC. 192 = ELASTIC. 193 = ELASTIC. 194 = ELASTIC. 195 = ELASTIC. 196 = ELASTIC. 197 = ELASTIC. 198 = ELASTIC. 199 = ELASTIC. 200 = ELASTIC. 201 = ELASTIC. 202 = ELASTIC. 203 = ELASTIC. 204 = ELASTIC. 205 = ELASTIC. 206 = ELASTIC. 207 = ELASTIC. 208 = ELASTIC. 209 = ELASTIC. 210 = ELASTIC. 211 = ELASTIC. 212 = ELASTIC. 213 = ELASTIC. 214 = ELASTIC. 215 = ELASTIC. 216 = ELASTIC. 217 = ELASTIC. 218 = ELASTIC. 219 = ELASTIC. 220 = ELASTIC. 221 = ELASTIC. 222 = ELASTIC. 223 = ELASTIC. 224 = ELASTIC. 225 = ELASTIC. 226 = ELASTIC. 227 = ELASTIC. 228 = ELASTIC. 229 = ELASTIC. 230 = ELASTIC. 231 = ELASTIC. 232 = ELASTIC. 233 = ELASTIC. 234 = ELASTIC. 235 = ELASTIC. 236 = ELASTIC. 237 = ELASTIC. 238 = ELASTIC. 239 = ELASTIC. 240 = ELASTIC. 241 = ELASTIC. 242 = ELASTIC. 243 = ELASTIC. 244 = ELASTIC. 245 = ELASTIC. 246 = ELASTIC. 247 = ELASTIC. 248 = ELASTIC. 249 = ELASTIC. 250 = ELASTIC. 251 = ELASTIC. 252 = ELASTIC. 253 = ELASTIC. 254 = ELASTIC. 255 = ELASTIC. 256 = ELASTIC. 257 = ELASTIC. 258 = ELASTIC. 259 = ELASTIC. 260 = ELASTIC. 261 = ELASTIC. 262 = ELASTIC. 263 = ELASTIC. 264 = ELASTIC. 265 = ELASTIC. 266 = ELASTIC. 267 = ELASTIC. 268 = ELASTIC. 269 = ELASTIC. 270 = ELASTIC. 271 = ELASTIC. 272 = ELASTIC. 273 = ELASTIC. 27																													

1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

3/ 1 = NUMAL, 2 = NORMAL-SOFT, 3 = SUFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

4/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY ELASTIC, 11 = VERY STRUNG)

5/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

6/ XXX-9 = SLIGHT WHITE, XXX-8 = WHITE, XXX-7 = SLIGHTLY CREAMY, XXX-6 = CREAMY, XXX-5 = VERY CREAMY, XXX-4 = DULL GRAY, XXX-3 = GRAY, XXX-2 = SLIGHTLY OPEN, XXX-1 = VERY GRAY.

7/ XXX-00 = SLOTT, XXX-01 = THICK WALL OR MARSH, XXX-03 = CLOSE, XXX-05 = OPEN, IRREGULAR, XXX-06 = OPEN-SLIGHTLY IRREGULAR, XXX-07 = IRREGULAR-OPEN, XXX-09 = OPEN, XXX-10 = SLIGHTLY OPEN, IRREGULAR.

8/ XXX-50 = SLIGHTLY IRREGULAR-OPEN, XXX-70 = SLIGHT PROMISE, 3 = SLIGHT PROMISE, 4 = GOOD PROMISE.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SLIGHT PROMISE, 4 = GOOD PROMISE.

TABLE 12

1975 CRO

QUALITY DATA OF SAWFLY NURSERY SAMPLES

VARIETY OR SEL. NO.	T ₄	1000 KRT.		KERN. CH	WHT. PR	WHT. MIN.	FLR. EXT.	KERN. CH	FLR. EXT.	MIN. PR	FLR. EXT.	MIN. PR	MLG. PER.	MLG. PER.	MIX. ABS.	MIX. ABS.	TIME MIN.	MIX. TIME	DUGH CHAR.	GRUMB COLOR	CHUMJ GR	LOAF VOL.	BAKE VOL.	GEN. EVAL.	MNCR DEFICIENCY	MAJOR DEFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		LG	SM																								LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	SM	LG	

1/ CLEAN OXY - SUBTRACT 1 LB./DU. FOR OCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

1 = VERY SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE. 5 = NOT SATISFACTORY. 6 = VERY NOT SATISFACTORY.

1 = NORMAL; 2 = NORMAL-SOFT; 3 = SOFT-NORMAL; 4 = SOFT-VERY SOFT; 5 = VERY SOFT; 6 = NORMAL-HARD; 7 = HARD-NORMAL; 8 = HARD-VERY HARD; 9 = VERY HARD; 10 = VERY STRONG; 11 = VERY STRONG

6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE.

xxx.9 = BRIGHT WHITE, xxx.8 = WHITE, xxx.7 = SLIGHTLY CREAMY, xxx.6 = ORIGHT CREAMY, xxx.5 = CRE
7/ xxx.9 = BRIGHT WHITE, xxx.8 = WHITE, xxx.7 = SLIGHTLY CREAMY, xxx.6 = ORIGHT CREAMY, xxx.5 = CRE
xxx.00 = SOGGY xxx.01 = TWICKY ALL ON HARSH- xxx.03 = CLOSE- xxx.05 = OPEN- IRREGUL AR- xxx.06 =

XXX.50 = SLIGHTLY IRREGULAR, OPEN; XXX.70 = SLIGHTLY OPEN; XXX.90 = SLIGHTLY IRREGULAR; XXX.99 =

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

QUALITY DATA OF UNIFORM NURSERY SAMPLES

14x MOISTURE BASIS.
2/ 1 VERY SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-SATISFACTORY. 5 = QUESTIONABLE. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-QUESTIONABLE. 8 = UNSATISFACTORY.
3/ 1 NORMAL. 2 = NORMAL-SOFT. 3 = SOFT-NORMAL. 4 = SOFT. 5 = GRITTY. 6 = VERY SOFT.
4/ 1 REFER TO REFERENCE MIXIGRAMS FOR NOMINAL CURVE PATTERNS. (1 = VERY STRONG).
5/ 1 = BUCKY 2 = VERY ELASTIC. 3 = ELASTIC. 4 = ELASTICALLY UNDESIRABLE. 5 = ELASTICALLY UNDESIRABLE. 6 = ELASTICALLY UNDESIRABLE. 7 = PLIABLE-WEAK. 8 = WEAK-PLIABLE. 9 = WEAK. 10 = VERY WEAK. 20 = SLIGHTLY DEAD. 30 = DEAD.
6/ 1 = SOFT. 2 = VERY SOFT. 3 = SOFT. 4 = SOFT. 5 = SOFT. 6 = SOFT. 7 = SOFT. 8 = SOFT. 9 = SOFT. 10 = SOFT. 11 = SOFT. 12 = SOFT. 13 = SOFT. 14 = SOFT. 15 = SOFT. 16 = SOFT. 17 = SOFT. 18 = SOFT. 19 = SOFT. 20 = SOFT. 21 = SOFT. 22 = SOFT. 23 = SOFT. 24 = SOFT. 25 = SOFT. 26 = SOFT. 27 = SOFT. 28 = SOFT. 29 = SOFT. 30 = SOFT. 31 = SOFT. 32 = SOFT. 33 = SOFT. 34 = SOFT. 35 = SOFT. 36 = SOFT. 37 = SOFT. 38 = SOFT. 39 = SOFT. 40 = SOFT. 41 = SOFT. 42 = SOFT. 43 = SOFT. 44 = SOFT. 45 = SOFT. 46 = SOFT. 47 = SOFT. 48 = SOFT. 49 = SOFT. 50 = SOFT. 51 = SOFT. 52 = SOFT. 53 = SOFT. 54 = SOFT. 55 = SOFT. 56 = SOFT. 57 = SOFT. 58 = SOFT. 59 = SOFT. 60 = SOFT. 61 = SOFT. 62 = SOFT. 63 = SOFT. 64 = SOFT. 65 = SOFT. 66 = SOFT. 67 = SOFT. 68 = SOFT. 69 = SOFT. 70 = SOFT. 71 = SOFT. 72 = SOFT. 73 = SOFT. 74 = SOFT. 75 = SOFT. 76 = SOFT. 77 = SOFT. 78 = SOFT. 79 = SOFT. 80 = SOFT. 81 = SOFT. 82 = SOFT. 83 = SOFT. 84 = SOFT. 85 = SOFT. 86 = SOFT. 87 = SOFT. 88 = SOFT. 89 = SOFT. 90 = SOFT. 91 = SOFT. 92 = SOFT. 93 = SOFT. 94 = SOFT. 95 = SOFT. 96 = SOFT. 97 = SOFT. 98 = SOFT. 99 = SOFT. 100 = SOFT.
7/ 1 = SOFT. 2 = VERY SOFT. 3 = SOFT. 4 = SOFT. 5 = SOFT. 6 = SOFT. 7 = SOFT. 8 = SOFT. 9 = SOFT. 10 = SOFT. 11 = SOFT. 12 = SOFT. 13 = SOFT. 14 = SOFT. 15 = SOFT. 16 = SOFT. 17 = SOFT. 18 = SOFT. 19 = SOFT. 20 = SOFT. 21 = SOFT. 22 = SOFT. 23 = SOFT. 24 = SOFT. 25 = SOFT. 26 = SOFT. 27 = SOFT. 28 = SOFT. 29 = SOFT. 30 = SOFT. 31 = SOFT. 32 = SOFT. 33 = SOFT. 34 = SOFT. 35 = SOFT. 36 = SOFT. 37 = SOFT. 38 = SOFT. 39 = SOFT. 40 = SOFT. 41 = SOFT. 42 = SOFT. 43 = SOFT. 44 = SOFT. 45 = SOFT. 46 = SOFT. 47 = SOFT. 48 = SOFT. 49 = SOFT. 50 = SOFT. 51 = SOFT. 52 = SOFT. 53 = SOFT. 54 = SOFT. 55 = SOFT. 56 = SOFT. 57 = SOFT. 58 = SOFT. 59 = SOFT. 60 = SOFT. 61 = SOFT. 62 = SOFT. 63 = SOFT. 64 = SOFT. 65 = SOFT. 66 = SOFT. 67 = SOFT. 68 = SOFT. 69 = SOFT. 70 = SOFT. 71 = SOFT. 72 = SOFT. 73 = SOFT. 74 = SOFT. 75 = SOFT. 76 = SOFT. 77 = SOFT. 78 = SOFT. 79 = SOFT. 80 = SOFT. 81 = SOFT. 82 = SOFT. 83 = SOFT. 84 = SOFT. 85 = SOFT. 86 = SOFT. 87 = SOFT. 88 = SOFT. 89 = SOFT. 90 = SOFT. 91 = SOFT. 92 = SOFT. 93 = SOFT. 94 = SOFT. 95 = SOFT. 96 = SOFT. 97 = SOFT. 98 = SOFT. 99 = SOFT. 100 = SOFT.
8/ 1 = NO PROMISE. 2 = LITTLE PROMISE. 3 = SOME PROMISE. 4 = GOOD PROMISE.

TABLE 2

QUALITY DATA OF UNIFORM NURSERY SAMPLES

1976 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KWT.				1000 G.				WHT. MIN.	WHT. PRO.	KERN. 2 1/2	FLR. 2 1/2	MIN-J 2 1/2	EXT. 2 1/2	65% EX. 2 1/2	FLR. 2 1/2	MLG. 2 1/2	MLG. PRO.	PER. 2 1/2	MIX. 2 1/2	MIX. ABS.	BAKE 2 1/2	TIME 2 1/2	MIX. 2 1/2	DOUGH 2 1/2	CRUMB 2 1/2	CRUMB GRAIN	LOAF BAKE 2 1/2	VOL. 2 1/2	EVAL. 2 1/2	MINOR DEFICIENCY	MAJOR DEFICIENCY
		LG	MED	SM	G.	LG	MED	SM	G.																								
NORTH EASTERN AREA BLEND																																	
BUTTE	62-8	33-5	32	67	1	1-61	15-1	3	69-3	0-34	14-2	1	2	64-4	4	64-8	2-75	3	101-7	88-10	900	3	4										
CHRIS	60-3	30-8	23	74	3	1-57	16-4	3	68-7	0-36	13-1	1	3	63-5	3	63-9	2-50	3	102-0	89-07	970	2	4										WP BA
ERA	60-1	31-8	29	67	4	1-53	13-3	8	70-3	0-37	13-0	1	3	60-3	5	60-6	3-75	4	101-0	88-10	910	8	1	M65 DO									
JUSTIN	60-7	32-2	34	63	3	1-71	14-1	2	70-0	0-35	15-1	1	2	63-8	5	64-1	3-75	3	100-5	88-05	965	2	4										
MARQUIS	60-2	30-8	13	82	5	1-65	14-5	6	68-3	0-35	13-9	1	3	64-7	3	65-3	2-75	4	100-0	89-09	910	4	3	LG WP DO									
SELKIRK	58-5	34-0	25	72	3	1-71	14-5	5	69-9	0-35	14-3	1	2	65-3	5	65-7	3-25	4	100-7	87-09	935	4	3	WP DO									
WALDON	60-1	32-8	38	59	3	1-74	16-6	2	68-4	0-39	14-7	1	6	65-7	6	66-2	3-75	3	99-5	87-10	970	2	3	PD									M65
MN 7036	61-1	33-6	32	64	4	1-65	15-9	2	68-8	0-38	14-0	1	5	65-7	5	66-3	3-75	3	101-0	89-99	995	2	3	M65 PD									
MN 7037	61-7	40-5	57	42	1	1-69	15-9	2	68-7	0-36	14-3	1	3	66-3	5	67-2	3-75	3	101-8	88-07	1010	2	4	PD									
MN 7038	61-5	32-4	34	60	6	1-67	15-1	4	71-1	0-35	13-6	1	2	63-5	4	63-8	3-25	4	101-5	88-09	935	2	4	SM									
MN 7039	61-4	30-4	20	76	4	1-64	15-7	3	71-5	0-35	13-1	1	4	60-7	3	61-1	2-75	3	102-5	88-01	885	8	1	PD BA									
MN 7040	61-3	31-3	33	64	4	1-58	13-7	8	68-7	0-37	13-5	1	3	64-2	4	64-6	2-50	4	103-0	89-10	920	3	4	WP									
MN 7041	60-7	37-6	47	51	2	1-52	13-9	5	70-0	0-33	13-7	1	2	67-0	4	67-7	3-75	3	104-0	89-10	945	8	1	PD									
MN 7042	60-5	33-2	25	72	3	1-51	15-0	3	70-3	0-36	13-2	1	3	65-0	9	65-6	7-00	3	103-0	89-10	945	8	1	MT									
MN 7043	61-3	35-3	36	61	3	1-54	13-7	8	69-4	0-41	13-0	1	8	63-8	8	64-4	6-00	3	100-7	90-99	955	3	1	MT									
MN 7044	59-5	34-3	32	64	4	1-60	13-7	8	70-6	0-35	12-7	1	2	60-3	5	61-5	4-00	3	101-0	88-07	880	8	1	LV									
MN 7045	62-6	31-9	11	85	4	1-51	14-5	5	68-6	0-35	13-7	1	3	65-0	6	65-5	3-75	3	100-0	89-99	980	2	4	LG WP									
MN 7046	60-5	33-4	20	75	3	1-67	14-5	5	68-9	0-37	13-8	1	3	64-2	6	64-6	4-00	3	100-0	87-09	925	2	4	WP M65									
MN 7047	59-6	36-5	34	63	5	1-65	15-3	2	69-3	0-36	14-3	1	3	64-4	5	65-1	3-50	3	100-5	89-99	985	2	4										
MN 7048	61-1	30-7	21	74	5	1-73	16-1	3	68-3	0-39	15-4	1	5	66-0	6	66-7	4-50	3	100-5	88-10	985	2	3	M65									
MN 7049	62-0	31-8	19	77	4	1-67	15-3	3	66-7	0-35	14-2	2	4	65-7	4	66-6	3-00	3	100-7	88-99	925	2	3	LG EX									
MN 7050	60-8	32-1	13	84	3	1-69	16-3	3	69-0	0-38	15-4	1	4	65-7	5	66-4	2-75	3	100-7	89-99	1050	2	3	LG M65									
MN 7051	62-0	32-0	23	74	3	1-64	16-1	3	69-7	0-38	14-7	1	4	67-0	6	67-7	3-75	4	101-5	85-07	1030	3	3	M65 DO									
MN 7052	59-5	37-9	39	59	2	1-78	18-2	2	68-1	0-37	15-7	1	4	67-9	5	68-2	3-00	3	100-5	86-07	975	2	3	WP M65									
MN 7053	61-3	35-3	39	58	3	1-63	15-2	2	69-6	0-36	14-9	1	3	65-7	7	66-0	5-00	3	101-5	86-99	990	3	3	MT									
ND 544	59-8	34-7	39	58	3	1-72	15-6	2	67-3	0-41	15-0	2	8	65-7	7	66-1	4-75	3	100-8	90-99	1000	3	1	MT									
ND 545	60-0	34-7	26	70	4	1-63	15-4	2	70-3	0-33	14-7	1	2	64-4	5	64-9	4-00	3	101-5	88-05	960	2	4										
ND 546	60-7	33-3	24	72	4	1-64	15-3	3	70-9	0-31	14-6	1	1	62-5	5	62-8	3-75	3	101-4	88-05	930	4	3	BA									
ND 547	61-0	31-3	26	69	5	1-55	14-7	4	68-9	0-32	14-0	1	2	61-6	2	61-9	2-25	5	100-5	87-01	860	8	1	WP LV									
ND 548	60-6	34-7	37	59	4	1-67	14-2	5	68-6	0-32	13-5	1	2	62-8	6	63-2	4-75	3	101-0	89-07	905	5	3	BA MT									
ND 549	60-7	32-4	23	73	4	1-55	13-9	6	71-0	0-33	12-7	1	1	60-0	4	60-4	3-25	4	100-5	88-07	905	8	1	DO									
ND 550	62-4	34-7	39	58	3	1-75	15-3	2	69-1	0-35	14-3	1	3	61-6	6	62-0	4-50	3	102-0	87-10	980	8	1	WP BA									

TABLE 4
QUALITY DATA OF UNIFORM REGIONAL NURSERY SAMPLES

1976 CROP

VARIETY OR SEL. NO.	T. #	1000			WHT. MIN.	WHT. PRO.	KERN. CHN.	FLD. EXT.	FLD. MIN.	FLR. CHN.	MLG. PER.	MIX. ASC.	MIX. PAT.	BAKE TIME	MIX. TIME	DOUGH CHAR.	CRUMBS CHN.	CRUMB GRAIN	LOAF BAKE VTL.	BAKE EVAL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY
		g.	kg.	kg.																			
AREA AVERAGES OF CHRIS, JUSTIN AND SELKIRK																							
CROP YEAR AVERAGE																							
1971 AVERAGE																							
1972 AVERAGE																							
1973 AVERAGE																							
1974 AVERAGE																							
1975 AVERAGE																							
1976 AVERAGE																							
1971-75 AVG.																							

1/ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T. #.

2/ 14% MOISTURE BASIS.

3/ 100% SATISFACTORY. 2 = SATISFACTORY. 3 = SATISFACTORY-QUESTIONABLE. 4 = QUESTIONABLE-UNSATISFACTORY. 5 = QUESTIONABLE. 6 = QUESTIONABLE-UNSATISFACTORY. 7 = UNSATISFACTORY-UNSATISFACTORY. 8 = UNSATISFACTORY.

4/ 1 = NORMAL. 2 = NORMAL-SOFT. 3 = SOFT-NORMAL. 4 = SOFT. 5 = GRITTY. 6 = VERY SOFT.

5/ REFER TO PREFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK. --- 11 = VERY STRONG)

6/ 1 = LUCKY. 2 = VERY ELASTIC. 3 = ELASTIC. 4 = ELASTIC-PLIABLE. 5 = PLIABLE-ELASTIC. 6 = PLIABLE. 7 = PLIABLE-WEAK. 8 = WEAK-PLIABLE. 9 = WEAK. 10 = VERY WEAK. 20 = SLIGHTLY DEAD. 30 = DEAD.

7/ XXX.0 = SLIGHT WHITE. XXX.9 = WHITE. XXX.7 = SLIGHTLY CREAMY. XXX.6 = BRIGHT CREAMY. XXX.5 = CREAMY. XXX.4 = VERY CREAMY. XXX.3 = GRAY. XXX.2 = DULL GRAY. XXX.1 = VERY GRAY.

8/ XXX.00 = SOGGY. XXX.01 = THICK WALL OR HARSH. XXX.03 = CLOSE. XXX.05 = OPEN. XXX.06 = OPEN. XXX.07 = IRREGULAR. XXX.08 = OPEN. XXX.09 = OPEN. XXX.10 = SLIGHTLY OPEN. XXX.11 = SLIGHTLY OPEN. XXX.12 = SLIGHTLY OPEN. XXX.13 = SLIGHTLY OPEN. XXX.14 = SLIGHTLY OPEN. XXX.15 = SLIGHTLY OPEN. XXX.16 = SLIGHTLY OPEN. XXX.17 = SLIGHTLY OPEN. XXX.18 = SLIGHTLY OPEN. XXX.19 = SLIGHTLY OPEN. XXX.20 = SLIGHTLY OPEN. XXX.21 = SLIGHTLY OPEN. XXX.22 = SLIGHTLY OPEN. XXX.23 = SLIGHTLY OPEN. XXX.24 = SLIGHTLY OPEN. XXX.25 = SLIGHTLY OPEN. XXX.26 = SLIGHTLY OPEN. XXX.27 = SLIGHTLY OPEN. XXX.28 = SLIGHTLY OPEN. XXX.29 = SLIGHTLY OPEN. XXX.30 = SLIGHTLY OPEN. XXX.31 = SLIGHTLY OPEN. XXX.32 = SLIGHTLY OPEN. XXX.33 = SLIGHTLY OPEN. XXX.34 = SLIGHTLY OPEN. XXX.35 = SLIGHTLY OPEN. XXX.36 = SLIGHTLY OPEN. XXX.37 = SLIGHTLY OPEN. XXX.38 = SLIGHTLY OPEN. XXX.39 = SLIGHTLY OPEN. XXX.40 = SLIGHTLY OPEN. XXX.41 = SLIGHTLY OPEN. XXX.42 = SLIGHTLY OPEN. XXX.43 = SLIGHTLY OPEN. XXX.44 = SLIGHTLY OPEN. XXX.45 = SLIGHTLY OPEN. XXX.46 = SLIGHTLY OPEN. XXX.47 = SLIGHTLY OPEN. XXX.48 = SLIGHTLY OPEN. XXX.49 = SLIGHTLY OPEN. XXX.50 = SLIGHTLY OPEN. XXX.51 = SLIGHTLY OPEN. XXX.52 = SLIGHTLY OPEN. XXX.53 = SLIGHTLY OPEN. XXX.54 = SLIGHTLY OPEN. XXX.55 = SLIGHTLY OPEN. XXX.56 = SLIGHTLY OPEN. XXX.57 = SLIGHTLY OPEN. XXX.58 = SLIGHTLY OPEN. XXX.59 = SLIGHTLY OPEN. XXX.60 = SLIGHTLY OPEN. XXX.61 = SLIGHTLY OPEN. XXX.62 = SLIGHTLY OPEN. XXX.63 = SLIGHTLY OPEN. XXX.64 = SLIGHTLY OPEN. XXX.65 = SLIGHTLY OPEN. XXX.66 = SLIGHTLY OPEN. XXX.67 = SLIGHTLY OPEN. XXX.68 = SLIGHTLY OPEN. XXX.69 = SLIGHTLY OPEN. XXX.70 = SLIGHTLY OPEN. XXX.71 = SLIGHTLY OPEN. XXX.72 = SLIGHTLY OPEN. XXX.73 = SLIGHTLY OPEN. XXX.74 = SLIGHTLY OPEN. XXX.75 = SLIGHTLY OPEN. XXX.76 = SLIGHTLY OPEN. XXX.77 = SLIGHTLY OPEN. XXX.78 = SLIGHTLY OPEN. XXX.79 = SLIGHTLY OPEN. XXX.80 = SLIGHTLY OPEN. XXX.81 = SLIGHTLY OPEN. XXX.82 = SLIGHTLY OPEN. XXX.83 = SLIGHTLY OPEN. XXX.84 = SLIGHTLY OPEN. XXX.85 = SLIGHTLY OPEN. XXX.86 = SLIGHTLY OPEN. XXX.87 = SLIGHTLY OPEN. XXX.88 = SLIGHTLY OPEN. XXX.89 = SLIGHTLY OPEN. XXX.90 = SLIGHTLY OPEN. XXX.91 = SLIGHTLY OPEN. XXX.92 = SLIGHTLY OPEN. XXX.93 = SLIGHTLY OPEN. XXX.94 = SLIGHTLY OPEN. XXX.95 = SLIGHTLY OPEN. XXX.96 = SLIGHTLY OPEN. XXX.97 = SLIGHTLY OPEN. XXX.98 = SLIGHTLY OPEN. XXX.99 = SLIGHTLY OPEN. XXX.00 = SLIGHTLY OPEN.

9/ 1 = NO PROMISE. 2 = LITTLE PROMISE. 3 = SOME PROMISE. 4 = GOOD PROMISE.

QUALITY DATA OF UNIFORM NURSERY SAMPLES

VARIETY OR SELECTION	1000 SEEDS	KERNEL SIZE			HGT. MIN.	WGT. PRO.	KRN. CHAS.	ERN. EXT.	MIN. 2 55%	FLD. PRD.	MLG. CHAS.	WLG. PER.	MIX. ASS.	MIX. PAT.	BAKE ARS.	MIX. TIME	ROUGH CHAS.	GROUND GRAIN	LOAF BAKE VOL.	DAKE EVAL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY	
		LG	MD	SM																				
SPECIAL SAMPLES -- WILLISTON, NORTH DAKOTA																								
MALDRON-STO	61.9	35.2	67	32	1	1.65	14.9	2	67.6	0.37	14.2	1	2	63.8	5	63.9	3	100.0	90.99	207	2	4		
IMP 54	66.5	53.6	5	82	3	1.40	48.3	6	66.9	0.43	34.9	1	8	64.7	4	64.7	5	104.5	91.59	183	8	1	KW	SM LV
72-101A	60.3	28.9	5	89	6	1.36	16.3	8	66.7	0.43	16.1	1	8	66.0	11	66.0	2	102.9	86.95	180	6	1	KW	DD LV
1/ CLEAN ORY - SUBTRACT 1 LB./80. FOR DOCKAGE-FREE T & W.																								
1 1/2 14% MOISTURE BASIS.																								
2 1 VERY SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.																								
3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.																								
1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.																								
REFER TO REFERENCE MIXING PROGRAMS FOR NUMERICAL CURVE PATTERNS. (1 = VERY WEAK, 2 = WEAK, 3 = MEDIUM, 4 = STRONG, 5 = VERY STRONG)																								
1 = BUCKY 2 = ELASTIC 3 = ELASTIC 4 = ELASTIC 5 = ELASTIC 6 = ELASTIC 7 = ELASTIC 8 = ELASTIC 9 = ELASTIC 10 = ELASTIC 11 = ELASTIC 12 = ELASTIC 13 = ELASTIC 14 = ELASTIC 15 = ELASTIC 16 = ELASTIC 17 = ELASTIC 18 = ELASTIC 19 = ELASTIC 20 = ELASTIC 21 = ELASTIC 22 = ELASTIC 23 = ELASTIC 24 = ELASTIC 25 = ELASTIC 26 = ELASTIC 27 = ELASTIC 28 = ELASTIC 29 = ELASTIC 30 = ELASTIC 31 = ELASTIC 32 = ELASTIC 33 = ELASTIC 34 = ELASTIC 35 = ELASTIC 36 = ELASTIC 37 = ELASTIC 38 = ELASTIC 39 = ELASTIC 40 = ELASTIC 41 = ELASTIC 42 = ELASTIC 43 = ELASTIC 44 = ELASTIC 45 = ELASTIC 46 = ELASTIC 47 = ELASTIC 48 = ELASTIC 49 = ELASTIC 50 = ELASTIC 51 = ELASTIC 52 = ELASTIC 53 = ELASTIC 54 = ELASTIC 55 = ELASTIC 56 = ELASTIC 57 = ELASTIC 58 = ELASTIC 59 = ELASTIC 60 = ELASTIC 61 = ELASTIC 62 = ELASTIC 63 = ELASTIC 64 = ELASTIC 65 = ELASTIC 66 = ELASTIC 67 = ELASTIC 68 = ELASTIC 69 = ELASTIC 70 = ELASTIC 71 = ELASTIC 72 = ELASTIC 73 = ELASTIC 74 = ELASTIC 75 = ELASTIC 76 = ELASTIC 77 = ELASTIC 78 = 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QUALITY DATA OF FIELD PLOT NURSERY SAMPLES

[illegible]

QUALITY DATA OF FIELD PLOT NURSERY SAMPLES

1/ CLEAN DRY - SUBTRACT 1 LB./8U. FCR COCKAGE-FREE T.W.

1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = QUESTIONABLE, 4 = SATISFACTORY-QUESTIONABLE, 5 = QUESTIONABLE-SATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY, 9 = VERY UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

S/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK --- 11 = VERY STRONG)

%
1 = DUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE
COARM COARM COARM COARM COARM COARM COARM COARM COARM COARM
VXX-6 = MUTE VXX-7 = SLIGHTLY COARM VXX-8 = BRIGHT COARM
VXX-9 = COARM VXX-A = MEDIUM COARM VXX-B = GRAY VXX-C = WHITE
VXX-D = COARM VXX-E = PLIABLE, 7 = PLIABLE, 8 = WEAK-PLIABLE, 9 = WEAK,
10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD

[illegible]

XXX.S0 = SLIGHTLY IRREGULAR, OPEN, XXX.70 = SLIGHTLY OPEN, XXX.90 = SLIGHTLY IRREGULAR, XXX.99 = NORMAL.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

1976 CRQP

1/ CLEAN DRY - SUBTRACT 1 LB. 78U. FOR OCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

S/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK --- 11 = VERY STRONG)

1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE-WEAK, 7 = WEAK-PLIABLE, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY OEO, 30 = OEO.

[illegible]

XXX*50 = SLIGHTLY IRREGULAR.OPEN; XXX*90 = SLIGHTLY IRREGULAR.
XXX*99 = NORMAL.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

QUALITY DATA OF FIELD PLOTS

[illegible]

TABLE 10
QUALITY DATA OF FIELD PLOT NURSERY SAMPLES

1976 CROP

VARIETY OR SEL. NO.	T.W. #/BU.	1000 WGT.			KERNEL SIZE			WHT.		KERN.		FLR.		MIN.		FLR.		MLG.		MIX.		MIX.		BAKE		DOUGH		CRUMBS		CRUMBS		LOAF		BAKE VOL.	GEN. EVAL.	MAJOR DEFICIENCY																
		LG	RED	SM	WHT.	MIN.	WHT.	PRO.	CHGR.	EXT.	65%EX.	PRO.	CHGR.	PER.	WHT.	MIN.	FLR.	MLG.	WHT.	MIN.	ABS.	PAT.	TIME	CHAR.	COLOR	GRAIN	CC.	MIN.	WHT.	MT	LV	SM	WP				M65	DO														
WISCONSIN																																																				
WALDRON ST0	61.9	35.2	67	32	1	1.65	14.8	2	68.7	0.38	14.6	1	2	63.2	4	63.2	3	100.0	88.99	980	2	4																														
ELLAR	62.4	34.8	25	74	1	1.79	16.7	4	67.0	0.45	14.8	1	8	64.2	5	64.1	3.50	102.8	87.09	965	8	1	WM																													
ERA	62.4	31.4	34	62	4	1.61	13.1	7	69.4	0.44	12.4	1	8	60.0	6	59.8	4.25	100.5	89.09	865	8	1	XW	LG	MT	LV																										
XITT	59.4	35.3	50	48	2	1.71	15.0	4	66.1	0.48	14.6	1	8	64.4	5	64.0	3.75	101.7	89.09	920	8	1	TW	SM																												
LATHROP	60.9	35.2	40	57	3	1.60	13.6	6	71.9	0.41	13.2	1	4	62.5	5	62.4	3.00	101.7	89.99	850	5	2	LG	SM	WP	M65	DO	LV																								
DAF	60.9	34.8	46	52	2	1.62	14.5	3	67.5	0.38	13.8	1	3	63.2	7	63.4	5.00	100.0	86.05	910	8	1	LG	SM	MT																											
DLE	62.6	37.3	57	41	2	1.69	15.4	3	66.7	0.41	14.8	1	5	64.2	5	64.1	4.00	101.0	89.09	935	4	2	SM	M65	DO																											
H678-1-6-6	63.1	34.5	48	50	2	1.72	15.4	3	66.6	0.41	14.8	1	5	63.5	6	63.4	5.00	102.5	87.09	820	8	1	SM	M65	MT																											
H678-1-6-6	60.4	33.9	35	63	2	1.71	14.6	4	68.9	0.37	14.2	1	2	63.8	6	63.8	3.50	101.7	91.99	975	2	4	LG	SM	DO																											
H678-1-6-9	59.3	33.1	31	66	3	1.68	14.3	5	67.8	0.39	13.7	1	3	62.8	5	62.6	4.00	100.0	90.70	1005	4	3	TW	LG	SM	DO																										
H678-1-6A311	60.1	32.2	35	63	2	1.71	14.1	6	67.2	0.36	13.5	1	2	62.5	5	62.3	3.50	100.0	90.70	930	5	3	TW	KW	LG	SM	DO																									

1/ CLEAN GRN - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.
 2/ 1% MOISTURE BASIS.
 3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.
 4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = VERY SOFT, 5 = VERY SOFT-VERY PLIABLE, 6 = VERY PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.
 5/ REFERENCE KERNELS: 1 = VERY PLIABLE, 2 = PLIABLE, 3 = ELASTIC-PLIABLE, 4 = ELASTIC, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-ELASTIC, 8 = PLIABLE-ELASTIC, 9 = PLIABLE-ELASTIC, 10 = PLIABLE-ELASTIC, 11 = PLIABLE-ELASTIC, 12 = PLIABLE-ELASTIC, 13 = PLIABLE-ELASTIC, 14 = PLIABLE-ELASTIC, 15 = PLIABLE-ELASTIC, 16 = PLIABLE-ELASTIC, 17 = PLIABLE-ELASTIC, 18 = PLIABLE-ELASTIC, 19 = PLIABLE-ELASTIC, 20 = PLIABLE-ELASTIC, 21 = PLIABLE-ELASTIC, 22 = PLIABLE-ELASTIC, 23 = PLIABLE-ELASTIC, 24 = PLIABLE-ELASTIC, 25 = PLIABLE-ELASTIC, 26 = PLIABLE-ELASTIC, 27 = PLIABLE-ELASTIC, 28 = PLIABLE-ELASTIC, 29 = PLIABLE-ELASTIC, 30 = PLIABLE-ELASTIC, 31 = PLIABLE-ELASTIC, 32 = PLIABLE-ELASTIC, 33 = PLIABLE-ELASTIC, 34 = PLIABLE-ELASTIC, 35 = PLIABLE-ELASTIC, 36 = PLIABLE-ELASTIC, 37 = PLIABLE-ELASTIC, 38 = PLIABLE-ELASTIC, 39 = PLIABLE-ELASTIC, 40 = PLIABLE-ELASTIC, 41 = PLIABLE-ELASTIC, 42 = PLIABLE-ELASTIC, 43 = PLIABLE-ELASTIC, 44 = PLIABLE-ELASTIC, 45 = PLIABLE-ELASTIC, 46 = PLIABLE-ELASTIC, 47 = PLIABLE-ELASTIC, 48 = PLIABLE-ELASTIC, 49 = PLIABLE-ELASTIC, 50 = PLIABLE-ELASTIC, 51 = PLIABLE-ELASTIC, 52 = PLIABLE-ELASTIC, 53 = PLIABLE-ELASTIC, 54 = PLIABLE-ELASTIC, 55 = PLIABLE-ELASTIC, 56 = PLIABLE-ELASTIC, 57 = PLIABLE-ELASTIC, 58 = PLIABLE-ELASTIC, 59 = PLIABLE-ELASTIC, 60 = PLIABLE-ELASTIC, 61 = PLIABLE-ELASTIC, 62 = PLIABLE-ELASTIC, 63 = PLIABLE-ELASTIC, 64 = PLIABLE-ELASTIC, 65 = PLIABLE-ELASTIC, 66 = PLIABLE-ELASTIC, 67 = PLIABLE-ELASTIC, 68 = PLIABLE-ELASTIC, 69 = PLIABLE-ELASTIC, 70 = PLIABLE-ELASTIC, 71 = PLIABLE-ELASTIC, 72 = PLIABLE-ELASTIC, 73 = PLIABLE-ELASTIC, 74 = PLIABLE-ELASTIC, 75 = PLIABLE-ELASTIC, 76 = PLIABLE-ELASTIC, 77 = PLIABLE-ELASTIC, 78 = PLIABLE-ELASTIC, 79 = PLIABLE-ELASTIC, 80 = PLIABLE-ELASTIC, 81 = PLIABLE-ELASTIC, 82 = PLIABLE-ELASTIC, 83 = PLIABLE-ELASTIC, 84 = PLIABLE-ELASTIC, 85 = PLIABLE-ELASTIC, 86 = PLIABLE-ELASTIC, 87 = PLIABLE-ELASTIC, 88 = PLIABLE-ELASTIC, 89 = PLIABLE-ELASTIC, 90 = PLIABLE-ELASTIC, 91 = PLIABLE-ELASTIC, 92 = PLIABLE-ELASTIC, 93 = PLIABLE-ELASTIC, 94 = PLIABLE-ELASTIC, 95 = PLIABLE-ELASTIC, 96 = PLIABLE-ELASTIC, 97 = PLIABLE-ELASTIC, 98 = PLIABLE-ELASTIC, 99 = PLIABLE-ELASTIC, 100 = PLIABLE-ELASTIC.
 6/ XXX.00 = SOGGY, XXX.01 = THICK WALL OR HARSH, XXX.02 = CLOSE, XXX.03 = OPEN, XXX.04 = OPEN, XXX.05 = OPEN, XXX.06 = OPEN, XXX.07 = OPEN, XXX.08 = OPEN, XXX.09 = OPEN, XXX.10 = OPEN, XXX.11 = OPEN, XXX.12 = OPEN, XXX.13 = OPEN, XXX.14 = OPEN, XXX.15 = OPEN, XXX.16 = OPEN, XXX.17 = OPEN, XXX.18 = OPEN, XXX.19 = OPEN, XXX.20 = OPEN, XXX.21 = OPEN, XXX.22 = OPEN, XXX.23 = OPEN, XXX.24 = OPEN, XXX.25 = OPEN, XXX.26 = OPEN, XXX.27 = OPEN, XXX.28 = OPEN, XXX.29 = OPEN, XXX.30 = OPEN, XXX.31 = OPEN, XXX.32 = OPEN, XXX.33 = OPEN, XXX.34 = OPEN, XXX.35 = OPEN, XXX.36 = OPEN, XXX.37 = OPEN, XXX.38 = OPEN, XXX.39 = OPEN, XXX.40 = OPEN, XXX.41 = OPEN, XXX.42 = OPEN, XXX.43 = OPEN, XXX.44 = OPEN, XXX.45 = OPEN, XXX.46 = OPEN, XXX.47 = OPEN, XXX.48 = OPEN, XXX.49 = OPEN, XXX.50 = OPEN, XXX.51 = OPEN, XXX.52 = OPEN, XXX.53 = OPEN, XXX.54 = OPEN, XXX.55 = OPEN, XXX.56 = OPEN, XXX.57 = OPEN, XXX.58 = OPEN, XXX.59 = OPEN, XXX.60 = OPEN, XXX.61 = OPEN, XXX.62 = OPEN, XXX.63 = OPEN, XXX.64 = OPEN, XXX.65 = OPEN, XXX.66 = OPEN, XXX.67 = OPEN, XXX.68 = OPEN, XXX.69 = OPEN, XXX.70 = OPEN, XXX.71 = OPEN, XXX.72 = OPEN, XXX.73 = OPEN, XXX.74 = OPEN, XXX.75 = OPEN, XXX.76 = OPEN, XXX.77 = OPEN, XXX.78 = OPEN, XXX.79 = OPEN, XXX.80 = OPEN, XXX.81 = OPEN, XXX.82 = OPEN, XXX.83 = OPEN, XXX.84 = OPEN, XXX.85 = OPEN, XXX.86 = OPEN, XXX.87 = OPEN, XXX.88 = OPEN, XXX.89 = OPEN, XXX.90 = OPEN, XXX.91 = OPEN, XXX.92 = OPEN, XXX.93 = OPEN, XXX.94 = OPEN, XXX.95 = OPEN, XXX.96 = OPEN, XXX.97 = OPEN, XXX.98 = OPEN, XXX.99 = OPEN, XXX.100 = OPEN.
 7/ I = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 11

QUALITY DATA OF INTERNATIONAL SAWFLY NURSERY SAMPLES

1976 CROP

VARIETY OR SEL. NO.	T ₉₀ #/BU.	1000 KWT.	KERNEL SIZE			GHT. MIN.	WHT. PRO.	KERN. CHAS.	FLR. EXT.	FLR. MIN.	FLR. MLG.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE ABS.	MIX. TIME	DOUGH CHAR.	COLOR	CRUMB GRAIN	LOAF VOL.	BAKE EVAL.	GEN.	MINOR DEFICIENCY	MAJOR DEFICIENCY	
			LG	MED	SM																				
FARGO, NORTH DAKOTA																									
CHRIS	61.8	32.3	21	78	1	1.54	15.6	3	67.4	0.40	15.4	1	2	64.7	4	64.7	2.75	3	102.8	87.07	200	4	3	KW	DO
FORTUNA	61.3	37.9	42	56	2	1.55	16.2	2	67.3	0.43	16.0	1	2	65.3	4	65.3	2.75	4	101.0	88.99	190	2	4	MT	DO
LEW	62.1	38.3	32	67	1	1.58	15.3	2	67.9	0.44	14.9	1	3	65.7	7	65.7	4.50	3	102.8	87.99	196	5	2	MT	DO
THATCHER	60.7	36.3	10	87	3	1.72	14.6	6	67.7	0.47	14.4	1	4	63.8	4	63.8	3.00	6	101.5	86.99	190	6	2	KW	MP
TIOGA	61.4	37.6	36	61	1	1.69	15.9	2	65.9	0.41	15.7	2	2	66.0	5	66.0	3.25	3	102.0	89.99	192	4	3	DO	DO
ALORUN	61.1	36.4	46	53	1	1.75	15.5	2	67.0	0.41	15.3	1	2	65.3	5	65.3	3.25	5	101.0	90.95	263	2	4	KW	DO
MT7367-312	60.3	37.3	33	63	1	1.46	15.2	8	67.4	0.41	15.0	1	2	64.7	8	64.7	3.75	3	101.0	89.99	191	3	1	SW	DO
MT7340	61.5	39.2	45	51	4	1.53	14.8	4	66.4	0.44	14.6	1	3	64.7	8	64.7	6.00	6	101.0	90.99	187	8	1	MT	DO
MT7549	59.3	28.5	7	90	3	1.42	12.9	8	65.7	0.47	12.6	1	5	62.5	4	62.5	4.00	6	101.7	90.99	181	8	1	TW	KW
MT7549	58.4	29.9	6	91	3	1.45	12.7	8	65.0	0.48	12.2	1	6	61.9	4	61.9	3.25	6	101.7	87.10	179	8	1	TW	KW
MT7554	58.7	31.4	5	92	3	1.49	13.4	8	65.9	0.47	12.8	1	5	63.2	4	63.2	3.75	6	101.5	88.99	179	7	1	TW	KW
MT7567	58.9	31.5	19	78	3	1.44	14.3	6	66.4	0.42	13.9	1	2	63.2	5	63.2	4.50	5	101.0	86.99	196	6	2	TW	KW
MT7567	58.7	31.5	19	78	3	1.44	14.3	6	66.4	0.42	13.9	1	2	63.2	5	63.2	4.50	5	101.0	86.99	196	6	2	TW	KW
MT7568	61.4	38.8	34	64	2	1.67	15.5	2	67.3	0.42	15.3	1	2	65.7	6	65.7	4.75	3	100.5	86.95	202	6	2	MT	DO
MINOT, NORTH DAKOTA																									
CHRIS	58.8	23	72	5	1.56	15.9	3	67.3	0.38	15.7	1	2	67.3	4	67.3	3.25	4	100.0	89.99	202	2	4	KW	LG	
FORTUNA	58.7	32.7	39	56	1.55	15.3	2	67.7	0.40	15.0	1	2	67.0	5	67.0	3.50	3	100.0	89.99	201	4	3	DO	DO	
LEW	57.3	36.0	41	52	7	1.62	15.4	2	66.9	0.48	15.0	1	8	67.9	6	67.9	4.75	3	100.5	87.09	216	4	1	DO	DO
THATCHER	54.2	27.9	14	81	1.55	14.1	6	67.8	0.42	13.7	1	3	63.2	5	63.2	3.50	3	101.0	86.09	210	8	1	TW	KW	
TIOGA	57.8	36.6	32	43	3	1.58	15.7	2	67.6	0.41	15.5	1	2	67.6	5	67.6	3.00	5	102.8	90.99	210	4	3	DO	DO
ALORUN	56.3	37.3	51	46	3	1.65	15.9	2	67.1	0.41	15.0	1	2	67.9	6	67.9	4.00	3	101.8	87.07	205	4	3	DO	DO
MT7367-312	56.1	28.3	7	83	10	1.55	14.3	8	66.4	0.41	14.0	1	2	66.0	6	66.0	7.00	3	101.0	86.09	207	3	1	KW	MT
MT7340	56.5	35.5	27	76	15	1.56	14.0	3	67.5	0.42	13.7	1	8	68.0	9	68.0	3.50	3	100.5	89.99	192	8	1	KW	MT
MT7549	58.0	34.8	37	71	1	1.60	14.0	2	67.8	0.45	13.7	1	8	63.5	5	63.5	4.00	6	100.7	90.99	194	8	1	KW	LG
MT7549	48.9		19	72	9	1.61	14.0	8	64.8	0.48	13.4	1	8	63.5	5	63.5	4.00	6	100.7	90.99	194	8	1	KW	LG
MT7554	49.5	25.0	5	84	11	1.61	14.0	8	63.0	0.49	13.4	1	8	64.2	5	64.2	4.75	6	101.5	90.99	192	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5	5	62.5	5.00	3	101.0	88.09	207	8	1	SM	MP
MT7567	50.3	24.3	3	87	10	1.72	14.2	8	62.3	0.46	13.5	1	8	62.5											

VARIETY UR		1000		KERNEL SIZE		WHT.		WHT.		KERN.		FLR.		FLR.		MIN.		FLR.		MLG.		MLG.		PER.		3/		4/		5/		6/		7/		8/		9/		GEN.		MAJOR DEFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																	
SEL.	NO.	T. & S.	LG.	KWT.	LG	WED	SM	MIN.	2/	3/	4/	5/	6/	7/	8/	9/	10/	11/	12/	13/	14/	15/	16/	17/	18/	19/	20/	21/	22/	23/	24/	25/	26/	27/	28/	29/	30/	31/	32/	33/	34/	35/	36/	37/	38/	39/	40/	41/	42/	43/	44/	45/	46/	47/	48/	49/	50/	51/	52/	53/	54/	55/	56/	57/	58/	59/	60/	61/	62/	63/	64/	65/	66/	67/	68/	69/	70/	71/	72/	73/	74/	75/	76/	77/	78/	79/	80/	81/	82/	83/	84/	85/	86/	87/	88/	89/	90/	91/	92/	93/	94/	95/	96/	97/	98/	99/	100/	101/	102/	103/	104/	105/	106/	107/	108/	109/	110/	111/	112/	113/	114/	115/	116/	117/	118/	119/	120/	121/	122/	123/	124/	125/	126/	127/	128/	129/	130/	131/	132/	133/	134/	135/	136/	137/	138/	139/	140/	141/	142/	143/	144/	145/	146/	147/	148/	149/	150/	151/	152/	153/	154/	155/	156/	157/	158/	159/	160/	161/	162/	163/	164/	165/	166/	167/	168/	169/	170/	171/	172/	173/	174/	175/	176/	177/	178/	179/	180/	181/	182/	183/	184/	185/	186/	187/	188/	189/	190/	191/	192/	193/	194/	195/	196/	197/	198/	199/	200/	201/	202/	203/	204/	205/	206/	207/	208/	209/	210/	211/	212/	213/	214/	215/	216/	217/	218/	219/	220/	221/	222/	223/	224/	225/	226/	227/	228/	229/	230/	231/	232/	233/	234/	235/	236/	237/	238/	239/	240/	241/	242/	243/	244/	245/	246/	247/	248/	249/	250/	251/	252/	253/	254/	255/	256/	257/	258/	259/	260/	261/	262/	263/	264/	265/	266/	267/	268/	269/	270/	271/	272/	273/	274/	275/	276/	277/	278/	279/	280/	281/	282/	283/	284/	285/	286/	287/	288/	289/	290/	291/	292/	293/	294/	295/	296/	297/	298/	299/	300/	301/	302/	303/	304/	305/	306/	307/	308/	309/	310/	311/	312/	313/	314/	315/	316/	317/	318/	319/	320/	321/	322/	323/	324/	325/	326/	327/	328/	329/	330/	331/	332/	333/	334/	335/	336/	337/	338/	339/	340/	341/	342/	343/	344/	345/	346/	347/	348/	349/	350/	351/	352/	353/	354/	355/	356/	357/	358/	359/	360/	361/	362/	363/	364/	365/	366/	367/	368/	369/	370/	371/	372/	373/	374/	375/	376/	377/	378/	379/	380/	381/	382/	383/	384/	385/	386/	387/	388/	389/	390/	391/	392/	393/	394/	395/	396/	397/	398/	399/	400/	401/	402/	403/	404/	405/	406/	407/	408/	409/	410/	411/	412/	413/	414/	415/	416/	417/	418/	419/	420/	421/	422/	423/	424/	425/	426/	427/	428/	429/	430/	431/	432/	433/	434/	435/	436

TABLE 13

QUALITY DATA OF INTERNATIONAL SAWFLY NURSERY SAMPLES

1976 CROP

VARIETY OR SEL. NO.	T. W.	1000 KWT.	KERN. SIZE	WHT. MIN.	WHT. PRO.	KERN. CHAR.	FLR. EXT.	MIN. 55EX.	FLR. PER.	MLG. 34	MLG. 34	MIX. AB5.	MIX. PAT.	AB5. 34	AB5. 34	BAKE 24	MIX. TIME	DOUGH 64	COLOR 64	CRUMB 64	CRUMB GRAIN	LOAF VOL.	BAKE EVAL.	GEN. EVAL.	MINOR DEFICIENCY	MAJOR DEFICIENCY
SIDNEY, MONTANA																										
CHRI5	62.0	27.6	9	89	3	1.61	15.4	4	63.3	0.43	15.2	1	2	63.5	3	63.5	2.50	5	101.5	97.05	180	2	4			LG
FORTUNA	62.5	27.3	43	54	3	1.49	14.0	4	64.8	0.40	13.7	1	2	63.5	3	63.5	3.00	4	101.0	88.99	195	4	3			MT
LEW	64.0	21.7	21	78	1	1.55	14.6	3	65.6	0.45	14.3	1	2	65.6	3	65.6	2.50	6	101.0	87.09	190	8	1			LG M65
THATCHER	62.5	28.3	48	51	3	1.67	15.4	2	64.2	0.41	15.2	1	2	65.6	4	65.6	2.75	6	100.0	86.07	180	4	1			LG M65
TIIGA	62.0	30.9	48	51	1	1.67	15.4	2	64.2	0.41	15.2	1	2	65.6	4	65.6	2.75	6	100.0	86.07	180	4	1			LG M65
WALORON	61.5	34.7	47	51	2	1.63	15.7	2	62.6	0.46	15.0	1	4	63.2	3	63.2	2.50	5	101.0	89.10	194	4	2			LG BA
CH806731	60.0	27.0	4	91	5	1.60	14.4	8	66.2	0.46	14.1	1	3	62.3	5	62.3	4.00	4	101.7	90.99	177	7	1			MT
MT7340	51.5	35.7	29	68	3	1.53	14.1	4	66.0	0.44	13.9	1	2	63.5	8	63.5	6.75	3	100.7	87.07	185	8	1			LG BA
MT7548	57.5	23.8	3	88	9	1.63	13.5	8	61.7	0.48	12.9	2	8	60.7	4	60.7	4.00	5	100.5	89.99	183	8	1			MT LG SM M65 BA
MT7549	57.5	24.2	3	89	9	1.72	13.8	8	63.2	0.46	13.5	1	3	62.3	4	62.3	3.75	4	97.3	90.99	182	7	1			MT LG SM M65 BA
MT7554	59.0	25.6	5	89	7	1.64	13.6	8	62.6	0.45	13.0	2	4	63.2	5	63.2	4.75	3	100.4	90.99	178	7	1			LG DO
57073	61.0	30.8	51	46	3	1.48	14.6	3	64.6	0.41	14.2	1	2	63.5	4	63.5	2.50	6	100.0	89.99	186	2	4			LG SM DO
57567	60.0	31.9	5	80	3	1.59	13.6	4	62.0	0.42	13.1	2	2	62.0	6	62.0	3.50	3	100.0	88.05	184	8	1			LG SM DO
57568	62.5	37.5	43	55	2	1.57	14.2	3	67.0	0.46	12.7	1	4	64.2	5	64.2	4.50	4	100.5	87.10	187	5	2			LG SM DO
SUT	61.0	33.0	40	58	2	1.51	14.7	3	62.4	0.40	14.3	1	2	64.2	4	64.2	3.25	4	102.7	87.10	177	4	3			LG DO
5056	62.5	32.6	17	81	2	1.66	14.3	3	64.4	0.46	14.1	1	3	64.2	5	64.2	3.50	6	102.0	89.99	176	2	4			LG DO
5081	61.5	39.5	67	30	3	1.64	15.5	2	63.6	0.44	15.0	1	3	62.8	4	62.8	3.00	4	101.0	89.99	170	6	2			LG DO
50281	61.5	30.3	15	82	3	1.57	15.0	3	64.5	0.46	14.5	1	3	65.0	4	65.0	2.75	5	100.5	90.99	177	2	4			LG M65
50282	60.5	33.8	35	62	3	1.55	15.1	3	62.1	0.46	14.4	1	5	64.4	4	64.4	2.75	6	101.5	89.99	175	2	3			MT M65
HAYRE, MONTANA																										
CHRI5	64.0	29.7	21	77	2	1.61	12.0	4	67.9	0.53	11.6	1	8	60.3	3	60.3	3.25	6	102.0	88.10	159	3	1			M65
FORTUNA	63.5	38.5	43	54	3	1.60	11.6	5	69.6	0.43	11.0	1	1	59.7	3	59.7	3.25	6	102.7	90.99	162	5	3			BA
LEW	65.0	35.1	26	71	3	1.55	11.5	5	68.7	0.45	10.9	1	2	59.3	9	59.3	5.50	6	101.7	89.99	171	5	3			MT
THATCHER	63.0	32.7	16	80	4	1.59	13.3	3	66.8	0.51	12.5	1	5	61.0	3	61.0	3.00	6	102.0	86.09	169	2	4			M65
TIIGA	63.5	37.5	51	47	2	1.70	12.9	2	66.0	0.44	12.7	1	2	62.8	4	62.8	3.00	6	102.8	87.09	174	2	4			M65
WALORON	62.5	36.0	53	44	3	1.72	14.5	2	66.4	0.56	14.0	1	8	63.8	5	63.8	3.00	5	103.8	84.07	191	3	1			M65
CH806731	63.0	31.8	14	92	4	1.58	11.7	6	66.8	0.54	11.0	1	8	57.8	6	57.8	4.00	6	104.0	89.99	161	8	1			LG M65 BA
MT7340	64.5	35.0	24	73	3	1.69	10.8	8	66.0	0.47	10.3	1	3	57.0	10	57.0	5.25	6	103.0	89.99	145	8	1			MT
MT7548	61.5	27.8	6	88	6	1.70	10.8	8	64.7	0.52	10.2	1	8	57.5	3	57.5	3.50	6	102.5	87.01	159	6	1			LG M65 BA
MT7549	61.0	31.1	8	86	6	1.71	11.0	8	64.2	0.53	10.2	1	8	57.5	3	57.5	3.50	6	101.5	87.09	161	6	1			LG M65 BA
MT7554	62.5	31.5	11	85	4	1.71	10.9	8	64.0	0.49	10.1	2	6	59.3	3	59.3	3.50	6	103.6	89.99	161	8	1			LG M65
MT7567	62.5	31.8	5	90	5	1.74	10.9	8	65.1	0.46	10.2	1	3	59.7	4	59.7	3.75	6	102.5	88.09	164	8	1			MT
57003	62.0	40.7	53	43	4	1.55	13.2	3	68.8	0.41	12.8	1	1	60.7	4	60.7	3.75	6	102.8	90.99	181	2	4			LG M65
57064	63.0	39.4	44	52	4	1.54	12.0	3	65.7	0.44	11.6	1	2	62.3	4	62.3	3.75	6	103.8	90.99	168	2	4			BA
57068	64.0	40.2	51	46	3	1.57	11.8	4	67.7	0.44	11.2	1	2	57.5	6	57.5	4.00	6	103.5	89.09	162	8	1			BA
SUT	62.5	37.3	42	55	3	1.58	12.2	2	65.7	0.40	11.6	1	2	57.5	3	57.5	3.00	6	104.6	89.99	161	8	1			BA
5056	64.0	35.7	22	76	2	1.64	11.7	4	65.1	0.45	10.9	1	3	58.1	4	58.1	4.00	6	103.0	89.99	157	8	1			BA
5081	63.0	42.6	65	31	4	1.73	12.3	3	64.3	0.49	11.6	1	2	58.3	3	58.3	4.75	6	104.0	89.99	163	8	1			BA
50281	63.5	34.4	33	65	2	1.55	11.4	3	67.1	0.44	11.0	1	2	58.3	5	58.3	3.75	6	101.7	89.99	161	5	3			BA
50282	62.5	38.0	55	43	2	1.62	13.2	2	66.7	0.43	12.5	1	2	60.7	4	60.7	3.00	6	100.0	89.99	160	2	4			BA

1/ CLEAN DRY - SUBTRACT 1 LB./80. FOR DOCKAGE-FREE T.W.
2/ 14% MOISTURE BASIS.
3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.
4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.
5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERNS. (1 = VERY WEAK --- 11 = VERY STRONG)
6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-P LIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY OEO, 30 = OEO.
7/ XXX.9 = BRIGHT WHITE, XXX.8 = WHITE, XXX.7 = SLIGHTLY CREAMY, XXX.6 = BRIGHT CREAMY, XXX.5 = CREAMY, XXX.4 = VERY CREAMY, XXX.3 = GRAY, XXX.2 = DULL GRAY, XXX.1 = VERY GRAY.
8/ XXX.00 = SUGGY, XXX.01 = THICK WALL OR HARSH, XXX.03 = CLOSE, XXX.05 = OPEN, IRREGULAR, XXX.06 = OPEN, SLIGHTLY IRREGULAR, XXX.07 = IRREGULAR, XXX.09 = OPEN, XXX.10 = SLIGHTLY OPEN, IRREGULAR.
9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

QUALITY DATA OF INTERNATIONAL SAWFLY NURSERY SAMPLES

VARIETY OR SEL. NO.	T.W. #/BU.	1000 KNT.	KERNEL SIZE		PMT. MIN.	WHT. PRO.	KRN. CHAP.	FLR. EXT.	MIN. 3 55EX.	FLR. PRO.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE ABS.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMBS GRAIN	LOAF SAKE VOL. EXPL. EAL.	MINOR DEFICIENCY				GEN. 3/2	MAJOR DEFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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60.8	28.6	15	81	4	1.57	15.1	3	66.3	0.43	14.9	1	3	64.4	4	64.4	3.00	4	87.84	186	2	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

✓ CLEAN DRY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

1/ CLEAN DRY - SUBIRAC
2/ 14% MOISTURE HASIS.

27 14% NOISURE BASIS.
33/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE, 5 = NOT SATISFACTORY.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = FAIR, 4 = POOR, 5 = VERY POOR
4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = 50FT-NORMAL, 4 = 50FT, 5 = GRITTY, 6 = VERY 50FT.

1 = NORMAL 2 = NORMAL-LOW 3 = LOW 4 = NORMAL-HIGH 5 = HIGH 6 = VERY HIGH 7 = VERY STRONG
REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERN. (1 = VERY WEAK --- 11 = VERY STRONG)

1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY OEA0, 30 = OEA0.

7/ XXX.1 = VERY CREAMY, XXX.2 = OULL GRAY, XXX.3 = GRAY, XXX.4 = VERY CREAMY, XXX.5 = CREAMY, XXX.6 = BRIGHT CREAMY, XXX.7 = SLIGHTLY CREAMY, XXX.8 = WHITE, XXX.9 = BRIGHT WHITE, XXX.10 = VERY CREAMY, XXX.11 = VERY GRAY,

XXXX.00 = SOGGY, XXXX.01 = THICK WALL OR HARSH, XXXX.03 = CLOSE, XXXX.05 = OPEN, IRREGULAR, XXXX.06 = OPEN, SLIGHTLY IRREGULAR, XXXX.07 = IRREGULAR, OPEN, XXXX.09 = OPEN, XXXX.10 = IRREGULAR, XXXX.30 = SLIGHTLY OPEN, IRREGULAR, XXXX.40 = SOGGY, XXXX.41 = THICK WALL OR HARSH, XXXX.43 = CLOSE, XXXX.45 = OPEN, IRREGULAR, XXXX.46 = OPEN, SLIGHTLY IRREGULAR, XXXX.47 = IRREGULAR, OPEN, XXXX.49 = OPEN, XXXX.50 = SLIGHTLY OPEN, IRREGULAR, XXXX.51 = IRREGULAR, OPEN, XXXX.53 = CLOSE, XXXX.55 = OPEN, IRREGULAR, XXXX.56 = OPEN, SLIGHTLY IRREGULAR, XXXX.57 = IRREGULAR, OPEN, XXXX.59 = OPEN, XXXX.60 = IRREGULAR, OPEN, XXXX.61 = THICK WALL OR HARSH, XXXX.63 = CLOSE, XXXX.65 = OPEN, IRREGULAR, XXXX.66 = OPEN, SLIGHTLY IRREGULAR, XXXX.67 = IRREGULAR, OPEN, XXXX.69 = OPEN, XXXX.70 = SLIGHTLY OPEN, IRREGULAR, XXXX.71 = IRREGULAR, OPEN, XXXX.73 = CLOSE, XXXX.75 = OPEN, IRREGULAR, XXXX.76 = OPEN, SLIGHTLY IRREGULAR, XXXX.77 = IRREGULAR, OPEN, XXXX.79 = OPEN, XXXX.80 = SLIGHTLY OPEN, IRREGULAR, XXXX.81 = IRREGULAR, OPEN, XXXX.83 = CLOSE, XXXX.85 = OPEN, IRREGULAR, XXXX.86 = OPEN, SLIGHTLY IRREGULAR, XXXX.87 = IRREGULAR, OPEN, XXXX.89 = OPEN, XXXX.90 = SLIGHTLY OPEN, IRREGULAR, XXXX.91 = IRREGULAR, OPEN, XXXX.93 = CLOSE, XXXX.95 = OPEN, IRREGULAR, XXXX.96 = OPEN, SLIGHTLY IRREGULAR, XXXX.97 = IRREGULAR, OPEN, XXXX.99 = OPEN, XXXX.00 = SOGGY, XXXX.01 = THICK WALL OR HARSH, XXXX.03 = CLOSE, XXXX.05 = OPEN, IRREGULAR, XXXX.06 = OPEN, SLIGHTLY IRREGULAR, XXXX.07 = IRREGULAR, OPEN, XXXX.09 = OPEN, XXXX.10 = IRREGULAR, XXXX.30 = SLIGHTLY OPEN, IRREGULAR, XXXX.40 = SOGGY, XXXX.41 = THICK WALL OR HARSH, XXXX.43 = CLOSE, XXXX.45 = OPEN, IRREGULAR, XXXX.46 = OPEN, SLIGHTLY IRREGULAR, XXXX.47 = IRREGULAR, OPEN, XXXX.49 = OPEN, XXXX.50 = SLIGHTLY OPEN, IRREGULAR, XXXX.51 = IRREGULAR, OPEN, XXXX.53 = CLOSE, XXXX.55 = OPEN, IRREGULAR, XXXX.56 = OPEN, SLIGHTLY IRREGULAR, XXXX.57 = IRREGULAR, OPEN, XXXX.59 = OPEN, XXXX.60 = IRREGULAR, OPEN, XXXX.61 = THICK WALL OR HARSH, XXXX.63 = CLOSE, XXXX.65 = OPEN, IRREGULAR, XXXX.66 = OPEN, SLIGHTLY IRREGULAR, XXXX.67 = IRREGULAR, OPEN, XXXX.69 = OPEN, XXXX.70 = SLIGHTLY OPEN, IRREGULAR, XXXX.71 = IRREGULAR, OPEN, XXXX.73 = CLOSE, XXXX.75 = OPEN, IRREGULAR, XXXX.76 = OPEN, SLIGHTLY IRREGULAR, XXXX.77 = IRREGULAR, OPEN, XXXX.79 = OPEN, XXXX.80 = SLIGHTLY OPEN, IRREGULAR, XXXX.81 = IRREGULAR, OPEN, XXXX.83 = CLOSE, XXXX.85 = OPEN, IRREGULAR, XXXX.86 = OPEN, SLIGHTLY IRREGULAR, XXXX.87 = IRREGULAR, OPEN, XXXX.89 = OPEN, XXXX.90 = SLIGHTLY OPEN, IRREGULAR, XXXX.91 = IRREGULAR, OPEN, XXXX.93 = CLOSE, XXXX.95 = OPEN, IRREGULAR, XXXX.96 = OPEN, SLIGHTLY IRREGULAR, XXXX.97 = IRREGULAR, OPEN, XXXX.99 = OPEN

XXX,50 = SLIGHTLY IRREGULAR, OPEN, XXX,70 = SLIGHTLY OPEN, XXX,90 = SLIGHTLY

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

TABLE 15

QUALITY DATA OF SECONDARY SAMPLY NURSERY SAMPLES

1979, CROP

VARIETY OR SEL. NO.		T ₁		WHT.		KERNL SIZE		1000 K ₁		K ₂		K ₃		K ₄		K ₅		K ₆		K ₇		K ₈		K ₉		K ₁₀		K ₁₁		K ₁₂		K ₁₃		K ₁₄		K ₁₅		K ₁₆		K ₁₇		K ₁₈		K ₁₉		K ₂₀		K ₂₁		K ₂₂		K ₂₃		K ₂₄		K ₂₅		K ₂₆		K ₂₇		K ₂₈		K ₂₉		K ₃₀		K ₃₁		K ₃₂		K ₃₃		K ₃₄		K ₃₅		K ₃₆		K ₃₇		K ₃₈		K ₃₉		K ₄₀		K ₄₁		K ₄₂		K ₄₃		K ₄₄		K ₄₅		K ₄₆		K ₄₇		K ₄₈		K ₄₉		K ₅₀		K ₅₁		K ₅₂		K ₅₃		K ₅₄		K ₅₅		K ₅₆		K ₅₇		K ₅₈		K ₅₉		K ₆₀		K ₆₁		K ₆₂		K ₆₃		K ₆₄		K ₆₅		K ₆₆		K ₆₇		K ₆₈		K ₆₉		K ₇₀		K ₇₁		K ₇₂		K ₇₃		K ₇₄		K ₇₅		K ₇₆		K ₇₇		K ₇₈		K ₇₉		K ₈₀		K ₈₁		K ₈₂		K ₈₃		K ₈₄		K ₈₅		K ₈₆		K ₈₇		K ₈₈		K ₈₉		K ₉₀		K ₉₁		K ₉₂		K ₉₃		K ₉₄		K ₉₅		K ₉₆		K ₉₇		K ₉₈		K ₉₉		K ₁₀₀		K ₁₀₁		K ₁₀₂		K ₁₀₃		K ₁₀₄		K ₁₀₅		K ₁₀₆		K ₁₀₇		K ₁₀₈		K ₁₀₉		K ₁₁₀		K ₁₁₁		K ₁₁₂		K ₁₁₃		K ₁₁₄		K ₁₁₅		K ₁₁₆		K ₁₁₇		K ₁₁₈		K ₁₁₉		K ₁₂₀		K ₁₂₁		K ₁₂₂		K ₁₂₃		K ₁₂₄		K ₁₂₅		K ₁₂₆		K ₁₂₇		K ₁₂₈		K ₁₂₉		K ₁₃₀		K ₁₃₁		K ₁₃₂		K ₁₃₃		K ₁₃₄		K ₁₃₅		K ₁₃₆		K ₁₃₇		K ₁₃₈		K ₁₃₉		K ₁₄₀		K ₁₄₁		K ₁₄₂		K ₁₄₃		K ₁₄₄		K ₁₄₅		K ₁₄₆		K ₁₄₇		K ₁₄₈		K ₁₄₉		K ₁₅₀		K ₁₅₁		K ₁₅₂		K ₁₅₃		K ₁₅₄		K ₁₅₅		K ₁₅₆		K ₁₅₇		K ₁₅₈		K ₁₅₉		K ₁₆₀		K ₁₆₁		K ₁₆₂		K ₁₆₃		K ₁₆₄		K ₁₆₅		K ₁₆₆		K ₁₆₇		K ₁₆₈		K ₁₆₉		K ₁₇₀		K ₁₇₁		K ₁₇₂		K ₁₇₃		K ₁₇₄		K ₁₇₅		K ₁₇₆		K ₁₇₇		K ₁₇₈		K ₁₇₉		K ₁₈₀		K ₁₈₁		K ₁₈₂		K ₁₈₃		K ₁₈₄		K ₁₈₅		K ₁₈₆		K ₁₈₇		K ₁₈₈		K ₁₈₉		K ₁₉₀		K ₁₉₁		K ₁₉₂		K ₁₉₃		K ₁₉₄		K ₁₉₅		K ₁₉₆		K ₁₉₇		K ₁₉₈		K ₁₉₉		K ₂₀₀		K ₂₀₁		K ₂₀₂		K ₂₀₃		K ₂₀₄		K ₂₀₅		K ₂₀₆		K ₂₀₇		K ₂₀₈		K ₂₀₉		K ₂₁₀		K ₂₁₁		K ₂₁₂		K ₂₁₃		K ₂₁₄		K ₂₁₅		K ₂₁₆		K ₂₁₇		K ₂₁₈		K ₂₁₉		K ₂₂₀		K ₂₂₁		K ₂₂₂		K ₂₂₃		K ₂₂₄		K ₂₂₅		K ₂₂₆		K ₂₂₇		K ₂₂₈		K ₂₂₉		K ₂₃₀		K ₂₃₁		K ₂₃₂		K ₂₃₃		K ₂₃₄		K ₂₃₅		K ₂₃₆		K ₂₃₇		K ₂₃₈		K ₂₃₉		K ₂₄₀		K ₂₄₁		K ₂₄₂		K ₂₄₃		K ₂₄₄		K ₂₄₅		K ₂₄₆		K ₂₄₇		K ₂₄₈		K ₂₄₉		K ₂₅₀		K ₂₅₁		K ₂₅₂		K ₂₅₃		K ₂₅₄		K ₂₅₅		K ₂₅₆		K ₂₅₇		K ₂₅₈		K ₂₅₉		K ₂₆₀		K ₂₆₁		K ₂₆₂		K ₂₆₃		K ₂₆₄		K ₂₆₅		K ₂₆₆		K ₂₆₇		K ₂₆₈		K ₂₆₉		K ₂₇₀		K ₂₇₁		K ₂₇₂		K ₂₇₃		K ₂₇₄		K ₂₇₅		K ₂₇₆		K ₂₇₇		K ₂₇₈		K ₂₇₉		K ₂₈₀		K ₂₈₁		K ₂₈₂		K ₂₈₃		K ₂₈₄		K ₂₈₅		K ₂₈₆		K ₂₈₇		K ₂₈₈		K ₂₈₉		K ₂₉₀		K ₂₉₁		K ₂₉₂		K ₂₉₃		K ₂₉₄		K ₂₉₅		K ₂₉₆		K ₂₉₇		K ₂₉₈		K ₂₉₉		K ₃₀₀		K ₃₀₁		K ₃₀₂		K ₃₀₃		K ₃₀₄		K ₃₀₅		K ₃₀₆		K ₃₀₇		K ₃₀₈		K ₃₀₉		K ₃₁₀		K ₃₁₁		K ₃₁₂		K ₃₁₃		K ₃₁₄		K ₃₁₅		K ₃₁₆		K ₃₁₇		K ₃₁₈		K ₃₁₉		K ₃₂₀		K ₃₂₁		K ₃₂₂		K ₃₂₃		K ₃₂₄		K ₃₂₅		K ₃₂₆		K ₃₂₇		K ₃₂₈		K ₃₂₉		K ₃₃₀		K ₃₃₁		K ₃₃₂		K ₃₃₃		K ₃₃₄		K ₃₃₅		K ₃₃₆		K ₃₃₇		K ₃₃₈		K ₃₃₉		K ₃₄₀		K ₃₄₁		K ₃₄₂		K ₃₄₃		K ₃₄₄		K ₃₄₅		K ₃₄₆		K ₃₄₇		K ₃₄₈		K ₃₄₉		K ₃₅₀		K ₃₅₁		K ₃₅₂		K ₃₅₃		K ₃₅₄		K ₃₅₅		K ₃₅₆		K ₃₅₇		K ₃₅₈		K ₃₅₉		K ₃₆₀		K ₃₆₁		K ₃₆₂		K ₃₆₃		K ₃₆₄		K ₃₆₅		K ₃₆₆		K ₃₆₇		K ₃₆₈		K ₃₆₉		K ₃₇₀		K ₃₇₁		K ₃₇₂		K ₃₇₃		K ₃₇₄		K ₃₇₅		K ₃₇₆		K ₃₇₇		K ₃₇₈		K ₃₇₉		K ₃₈₀		K ₃₈₁		K ₃₈₂		K ₃₈₃		K ₃₈₄		K ₃₈₅		K ₃₈₆		K ₃₈₇		K ₃₈₈		K ₃₈₉		K ₃₉₀		K ₃₉₁		K ₃₉₂		K ₃₉₃		K ₃₉₄		K ₃₉₅		K ₃₉₆		K ₃₉₇		K ₃₉₈		K ₃₉₉		K ₄₀₀		K ₄₀₁		K ₄₀₂		K ₄₀₃		K ₄₀₄		K ₄₀₅		K ₄₀₆		K ₄₀₇		K ₄₀₈		K ₄₀₉		K ₄₁₀		K ₄₁₁		K ₄₁₂		K ₄₁₃		K ₄₁₄		K ₄₁₅		K ₄₁₆		K ₄₁₇		K ₄₁₈		K ₄₁₉		K ₄₂₀		K ₄₂₁		K ₄₂₂		K ₄₂₃		K ₄₂₄		K ₄₂₅		K ₄₂₆		K ₄₂₇		K ₄₂₈		K ₄₂₉		K ₄₃₀		K ₄₃₁		K ₄₃₂		K ₄₃₃		K ₄₃₄		K ₄₃₅		K ₄₃₆		K ₄₃₇		K ₄₃₈		K ₄₃₉		K ₄₄₀		K ₄₄₁		K 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TABLE 16

QUALITY DATA OF SECONDARY SAMPLE NURSERY SAMPLES

1976 CROP

VARIETY OR SEL. NO.	T ₈₀ K ₈₀	1000 K ₈₀	KERNEL SIZE LG MED SM	WHT. MIN.	WHT. PRO.	WHT. KERN.	KERN. CHAR.	FLR. EXT.	FLR. MIN.	FLR. PRO.	MLG. CHAR.	MLG. PER.	MIX. ABS.	MIX. PAT.	BAKE ADJ.	MIX. TIME	DOUGH CHAR.	CRUMB COLOR	CRUMB GRAIN	LOAF BAKE VOL.	BAKE EVAL.	GEN.	MAJOR DEFICIENCY
NORTH DAKOTA																							
CANUCK	60+5	30+5	10 37 3	1.40	16.0	3	64+0	0.42	15.7	1	2	64+2	4	64+2	64+2	3.25	3	100+0	88+10	20.1	4	3	8A
ERA	60+5	30+5	9 86 3	1.52	15.1	4	63+4	0.42	15.9	1	2	61+2	5	61+2	61+2	4.00	5	101+0	88+09	21.4	4	3	8A
TUDUNA	60+5	31+5	9 86 3	1.52	15.1	4	63+4	0.42	15.9	1	2	61+2	5	61+2	61+2	4.00	5	101+0	88+09	21.4	4	3	8A
TUDUNA	60+0	31+7	15 83 2	1.54	16+6	2	63+6	0.42	16+4	1	2	66+0	5	66+0	66+0	3.50	3	101+8	87+09	20.7	4	3	8A
WALDRON	60+0	30+0	8 90 2	1.55	16+2	3	64+7	0.41	16+0	1	2	66+0	5	66+0	66+0	4.00	3	102+8	86+09	21.9	4	3	8A
S6902	60+5	29+5	8 90 2	1.48	16+3	3	62+9	0.44	16+1	1	3	67+3	5	67+3	67+3	3.25	3	101+0	89+99	21.4	4	3	8A
S7340	60+5	29+9	9 89 2	1.51	16+3	3	61+9	0.43	16+1	2	3	66+6	6	66+6	66+6	4.50	3	101+0	88+09	21.4	4	3	8A
SUB	60+5	31+2	31 68 1	1.50	17+4	2	63+8	0.59	17+2	1	8	66+3	5	66+3	66+3	4.00	5	100+7	88+09	19.3	5	1	8A
SU9	58+5	28+4	11 86 3	1.59	16+0	3	59+7	0.46	15+8	1	7	65+7	5	65+7	65+7	4.00	5	102+7	90+70	20.2	4	1	8A
SU11	61+5	28+5	13 84 3	1.45	15+6	2	63+7	0.40	15+4	1	2	67+9	6	67+9	67+9	4.75	3	102+5	90+70	20.3	4	3	8A
SU21	60+5	28+5	7 90 3	1.58	16+0	3	65+2	0.42	16+6	1	2	66+3	5	66+3	66+3	3.50	4	101+5	87+05	18.5	3	4	8A
SU32	59+5	29+0	12 86 2	1.53	16+8	3	65+1	0.42	15+9	1	2	67+3	5	67+3	67+3	3.50	3	100+7	89+99	19.3	4	3	8A
SU31	59+5	28+4	11 86 3	1.53	16+4	3	65+1	0.45	16+0	1	4	65+7	5	65+7	65+7	3.75	4	100+7	88+99	19.4	3	3	8A
SU72	60+0	26+9	7 90 3	1.50	15+7	4	62+4	0.41	15+5	2	3	68+2	5	68+2	68+2	4.00	3	101+5	87+05	19.8	4	3	8A
SU161	58+5	31+3	18 80 2	1.51	15+7	3	61+6	0.45	15+5	2	5	67+3	5	67+3	67+3	4.25	4	100+5	89+99	18.8	2	3	8A
SU182	58+5	28+7	6 92 2	1.59	17+3	4	60+7	0.40	17+1	2	3	68+2	6	68+2	68+2	3.75	3	102+5	88+07	21.8	4	3	8A
SU281	61+0	27+0	15 82 3	1.45	16+6	3	65+6	0.41	16+3	1	2	68+5	5	68+5	68+5	3.00	3	102+5	85+35	19.9	4	3	8A
SU282	59+5	30+0	13 85 2	1.49	16+9	3	63+7	0.41	16+4	1	2	68+5	5	68+5	68+5	2.75	3	101+7	88+09	19.7	4	3	8A
SU221	59+0	30+7	18 81 1	1.61	16+7	3	62+3	0.48	16+5	1	8	67+0	4	67+0	67+0	2.50	6	100+0	88+99	19.0	5	1	8A
SU462	60+5	26+2	1 96 3	1.63	17+4	8	62+0	0.43	17+1	2	3	66+3	5	66+3	66+3	3.00	5	101+0	85+09	19.3	5	1	8A

1/ CLEAN ONLY - SUBTRACT 1 LB./BU. FOR DOCKAGE-FREE T.W.

2/ 14% MOISTURE BASIS.

3/ 1 = VERY SATISFACTORY, 2 = SATISFACTORY, 3 = SATISFACTORY-QUESTIONABLE, 4 = QUESTIONABLE-SATISFACTORY, 5 = QUESTIONABLE-UNSATISFACTORY, 6 = QUESTIONABLE-UNSATISFACTORY, 7 = UNSATISFACTORY-QUESTIONABLE, 8 = UNSATISFACTORY.

4/ 1 = NORMAL, 2 = NORMAL-SOFT, 3 = SOFT-NORMAL, 4 = SOFT, 5 = GRITTY, 6 = VERY SOFT.

5/ REFER TO REFERENCE MIXOGRAMS FOR NUMERICAL CURVE PATTERNS (1 = VERY WEAK, 11 = VERY STRONG)

6/ 1 = BUCKY, 2 = VERY ELASTIC, 3 = ELASTIC, 4 = ELASTIC-PLIABLE, 5 = PLIABLE-ELASTIC, 6 = PLIABLE, 7 = PLIABLE-WEAK, 8 = WEAK-PLIABLE, 9 = WEAK, 10 = VERY WEAK, 20 = SLIGHTLY DEAD, 30 = DEAD.

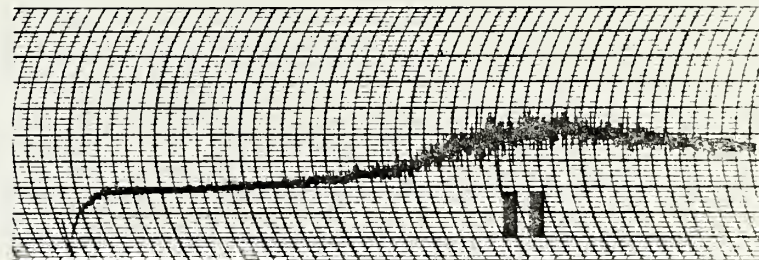
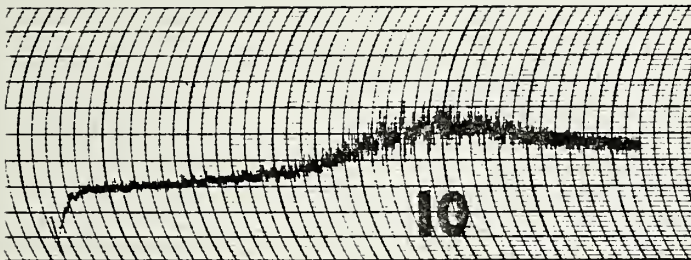
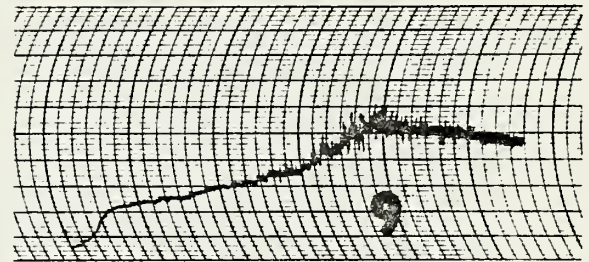
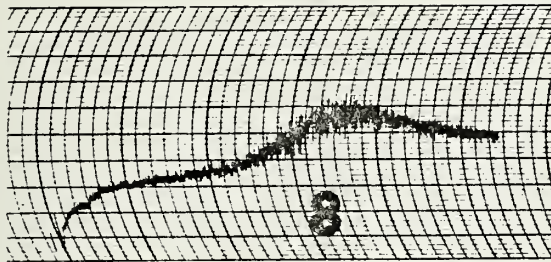
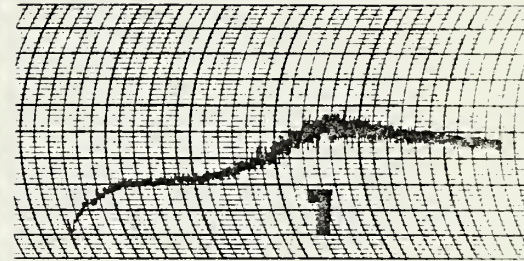
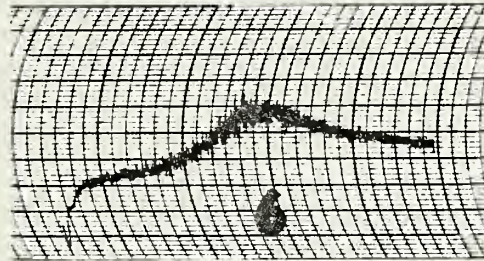
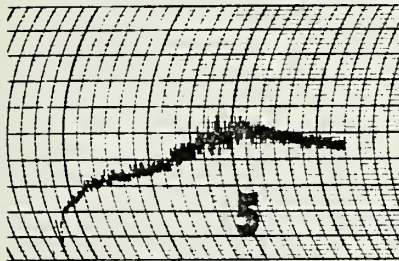
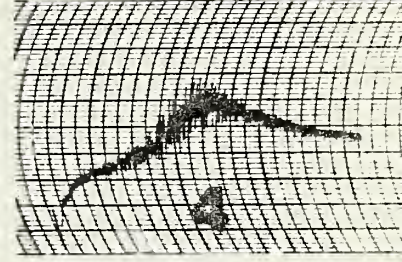
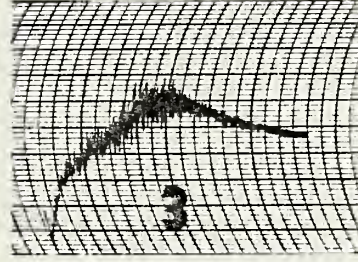
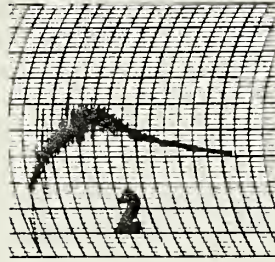
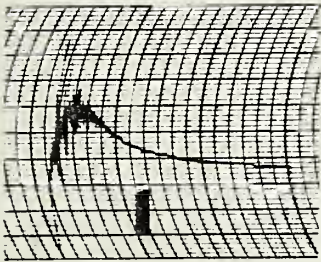
7/ XXX+9 = BRIGHT WHITE, XXX+8 = WHITE, XXX+7 = SLIGHTLY CREAMY, XXX+6 = BRIGHT CREAMY, XXX+5 = CREAMY, XXX+4 = VERY CREAMY, XXX+3 = GRAY, XXX+2 = DULL GRAY, XXX+1 = VERY GRAY.

8/ XXX+0 = SUGGY, XXX+01 = THICK WALL OR HARSH, XXX+03 = CLOSE, XXX+05 = OPEN, IRREGULAR, XXX+06 = OPEN, SLIGHTLY IRREGULAR, XXX+07 = IRREGULAR-OPEN, XXX+09 = OPEN, XXX+10 = SLIGHTLY OPEN, IRREGULAR.

9/ 1 = NO PROMISE, 2 = LITTLE PROMISE, 3 = SOME PROMISE, 4 = GOOD PROMISE.

REFERENCE MIXOGRAMS

HARD RED SPRING WHEAT



U.S.D.A. SPRING WHEAT QUALITY LABORATORY

FARGO, NORTH DAKOTA



